

# HITACHI

## SERVICE MANUAL

REVISED VERSION

SC

No. 0015E-1

# HTD-K210

REVISE THE SERVICE MANUAL  
(SC No. 0015E) ISSUED ON DEC  
2005



This manual is to amend the following content provided in the Service Manual (SC No. 0015E) issued on Dec 2005 :

- (1) "WIRING DIAGRAM" on page 12
- (2) "PCB DIAGRAMS" on page 19, 21-22 & 24
- (3) "TROUBLESHOOTING" on page 29-39
- (4) "REPLACEMENT PART LIST" on page 40-50

Please ignore these pages and replace them with the following pages respectively.

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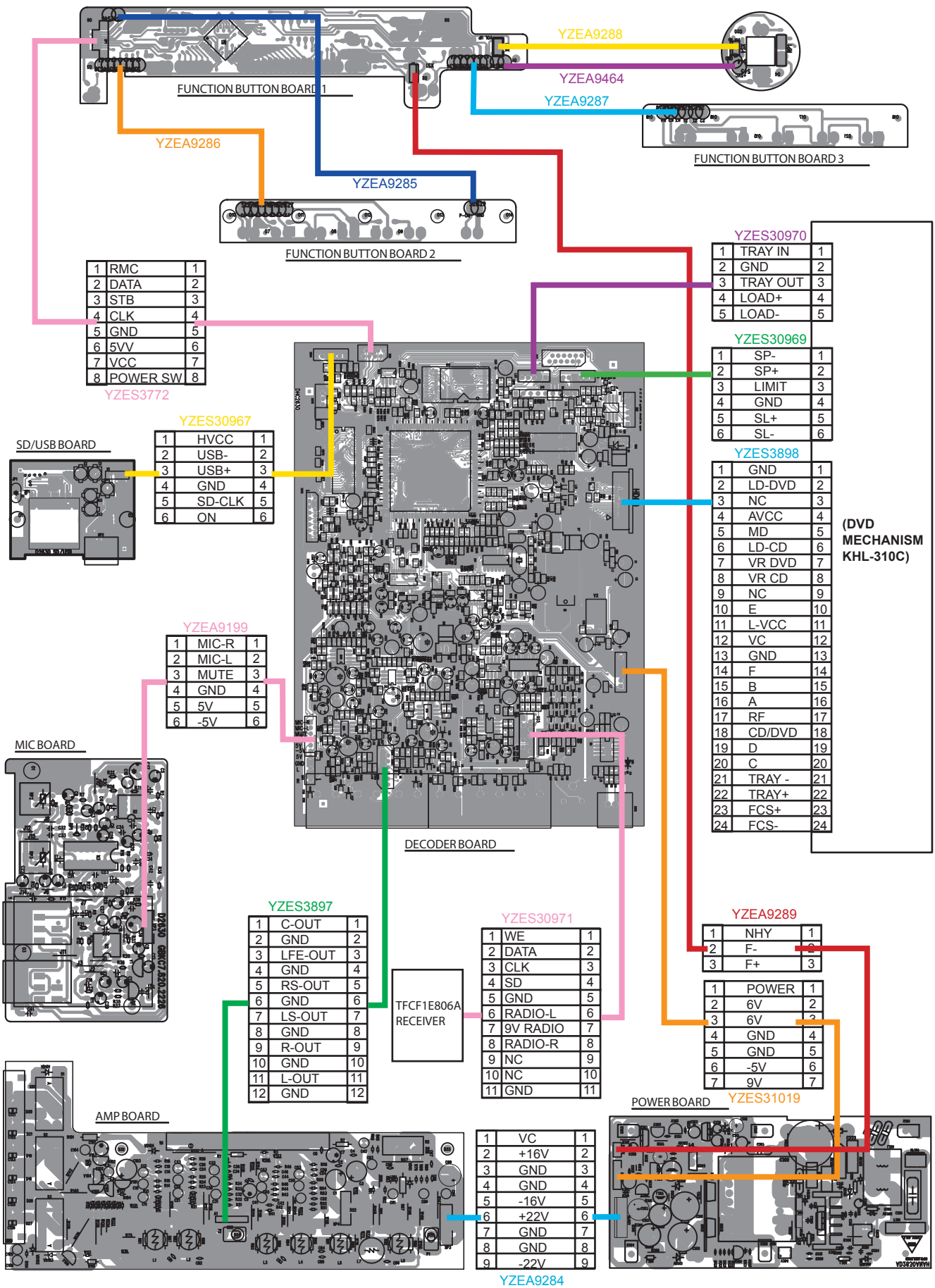
SPECIFICATIONS AND PARTS ARE SUBJECT TO CHANGE FOR IMPROVEMENT

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DVD Home Theatre System

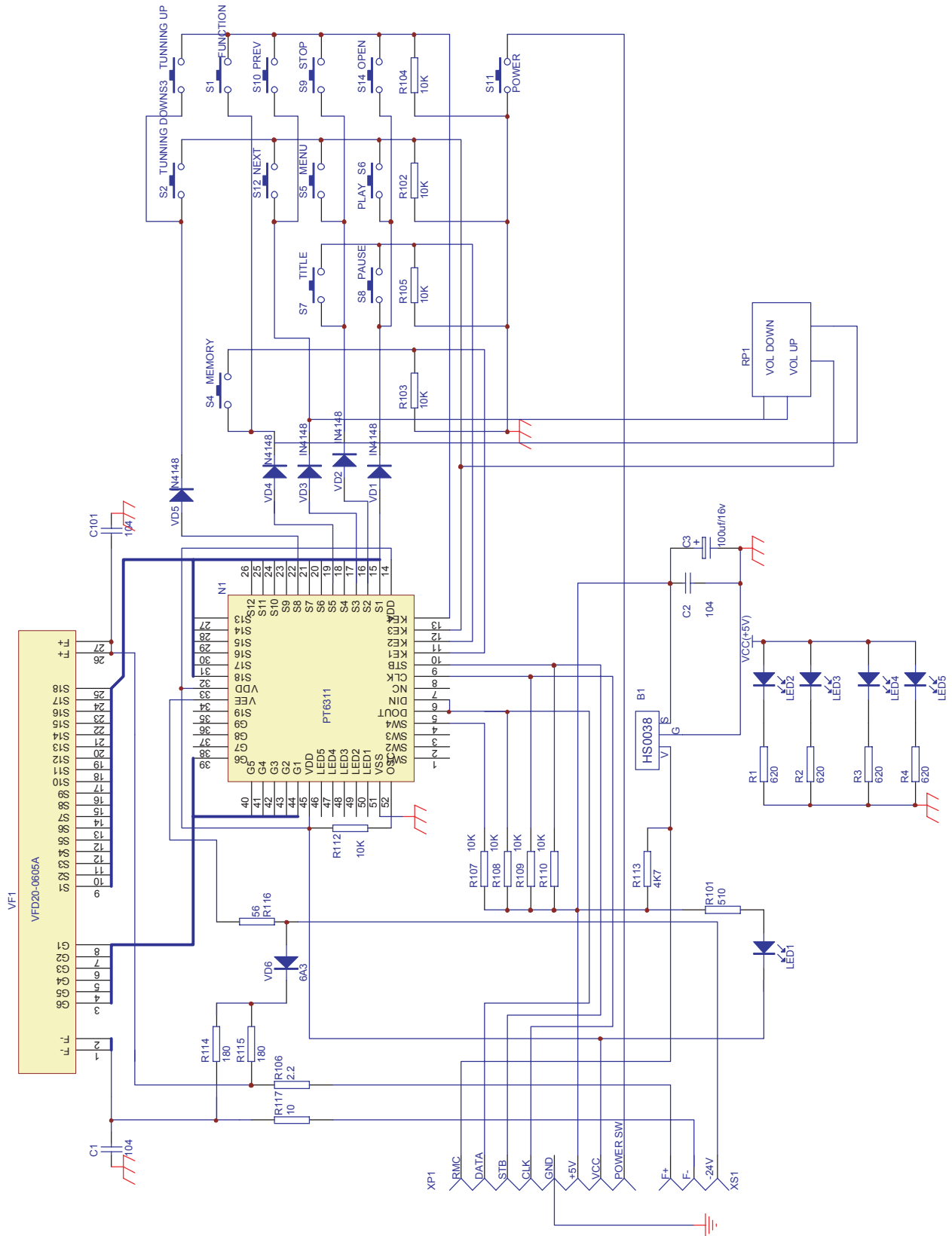
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# WIRING DIAGRAM (To replace Pg 12 of SC No. 0015E)



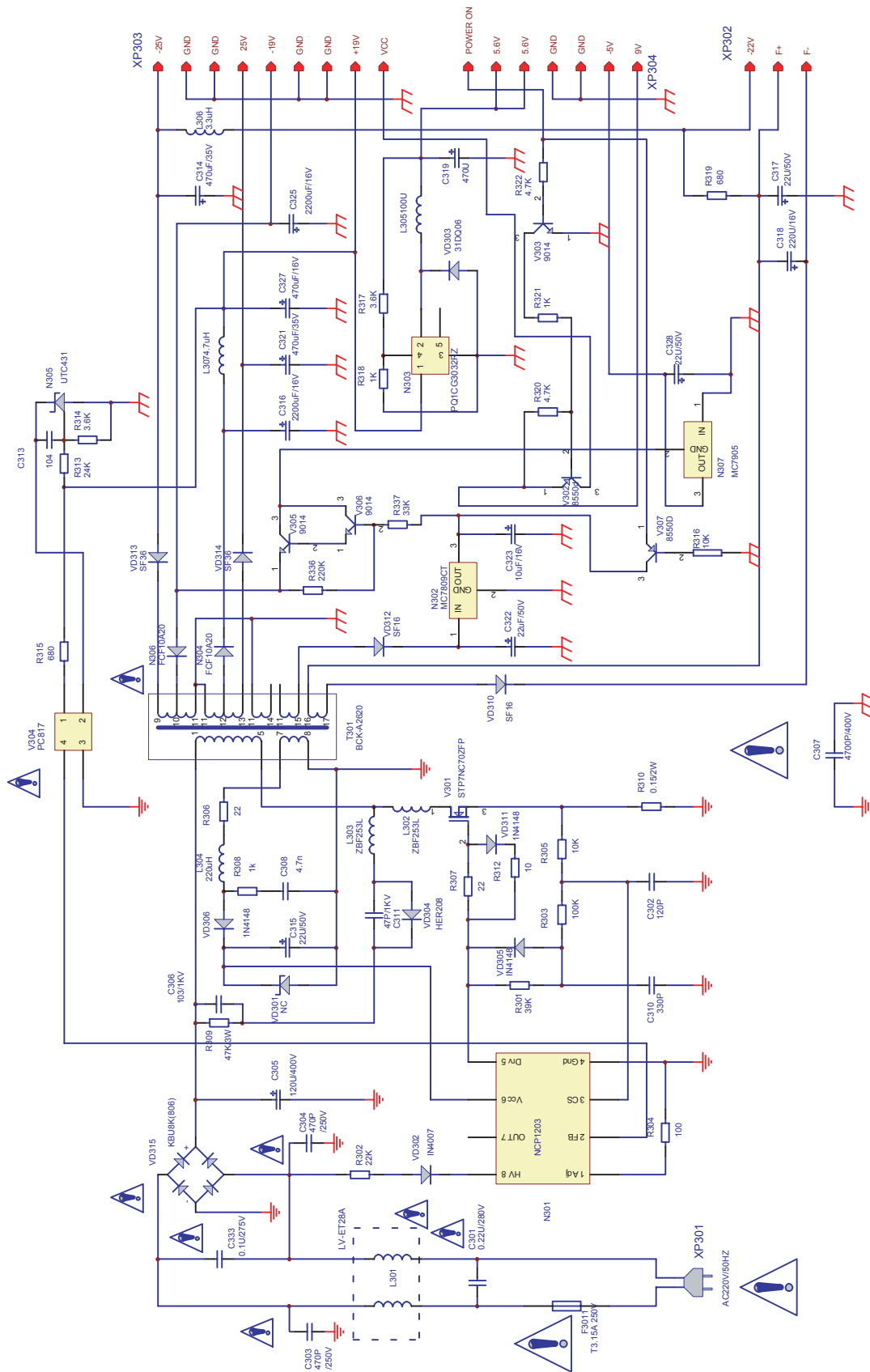
# SCHEMATIC DIAGRAMS (To replace Pg 19 of SC No. 0015E)

## DVA2630 FUNCTION BUTTON CIRCUIT DIAGRAM



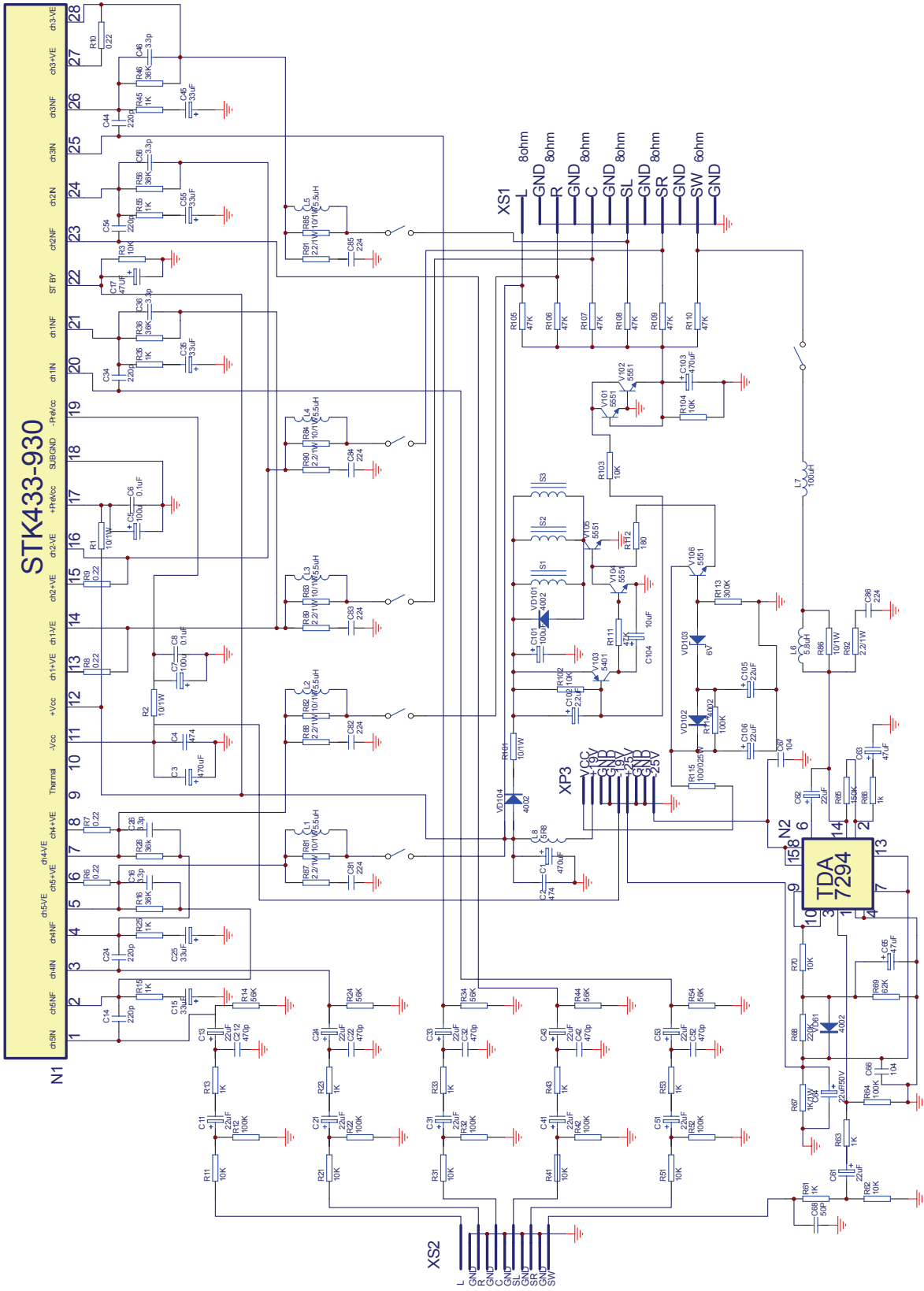
(To replace Pg 21 of SC No. 0015E)

POWER CIRCUIT DIAGRAM (REVISED)



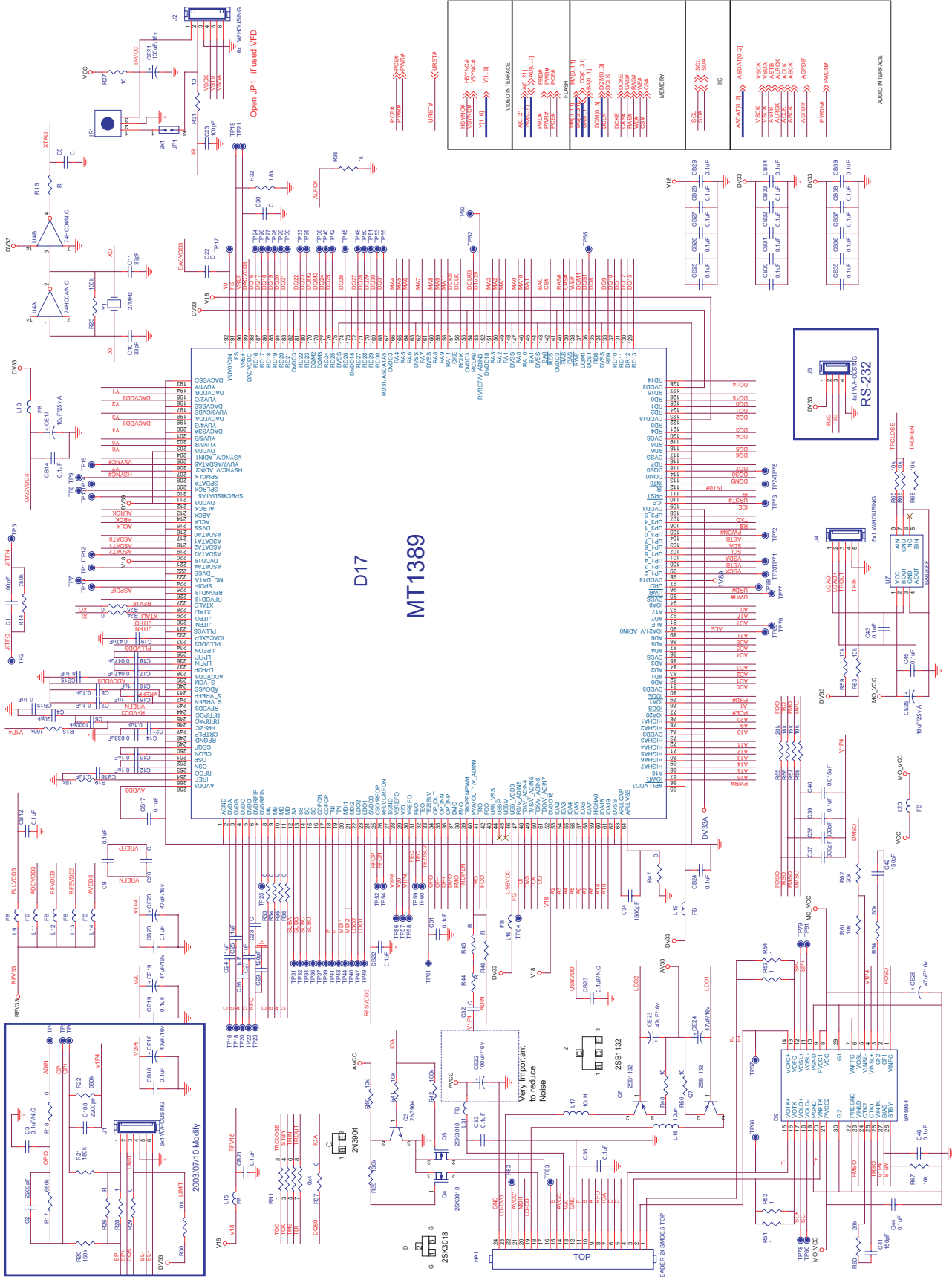
(To replace Pg 22 of SC No. 0015E)

AMP CIRCUIT DIAGRAM (REVISED)



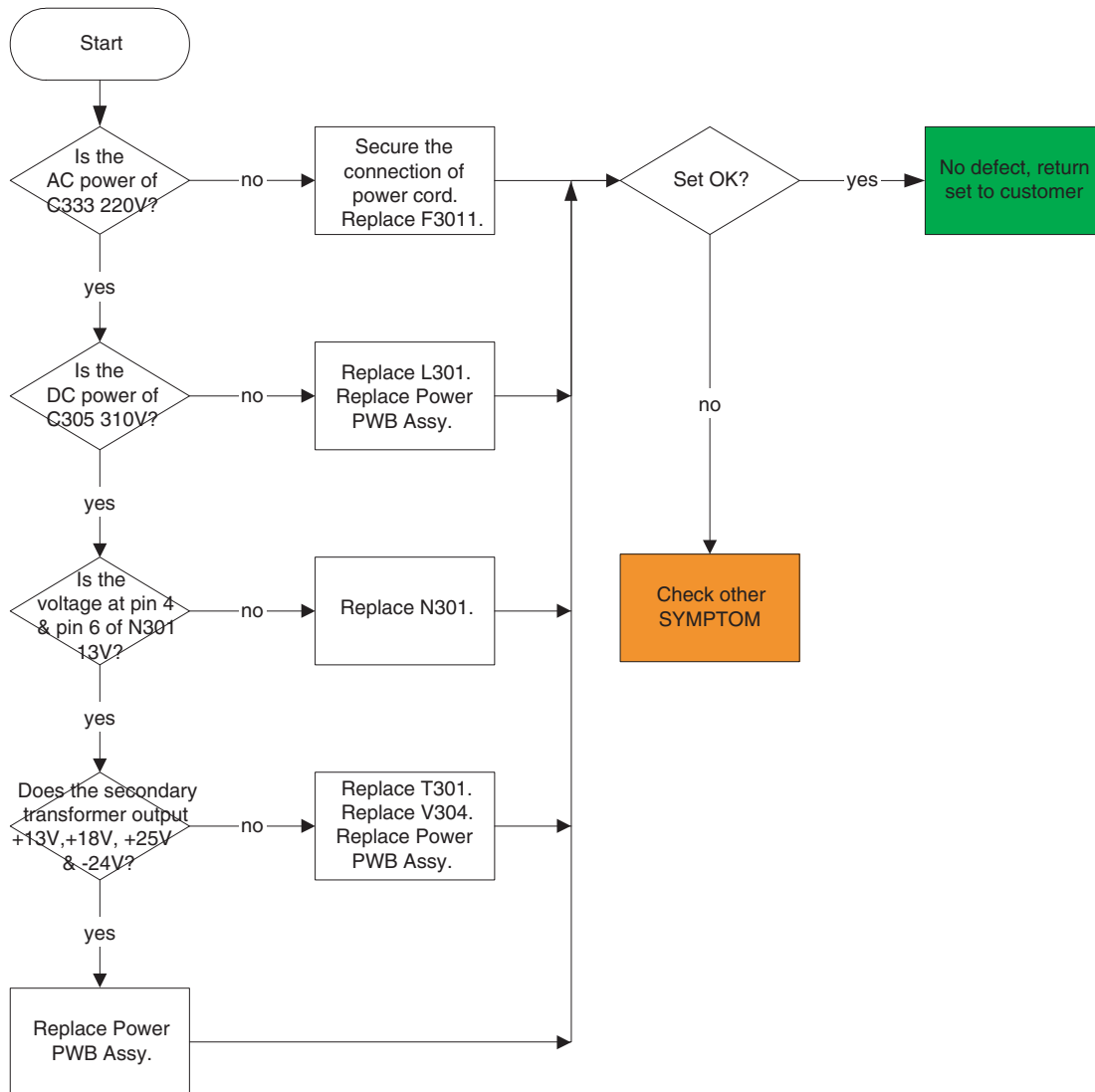
(To replace Pg 24 of SC No. 0015E)

# DECODER PCB CIRCUIT DIAGRAM 1 (REVISED)



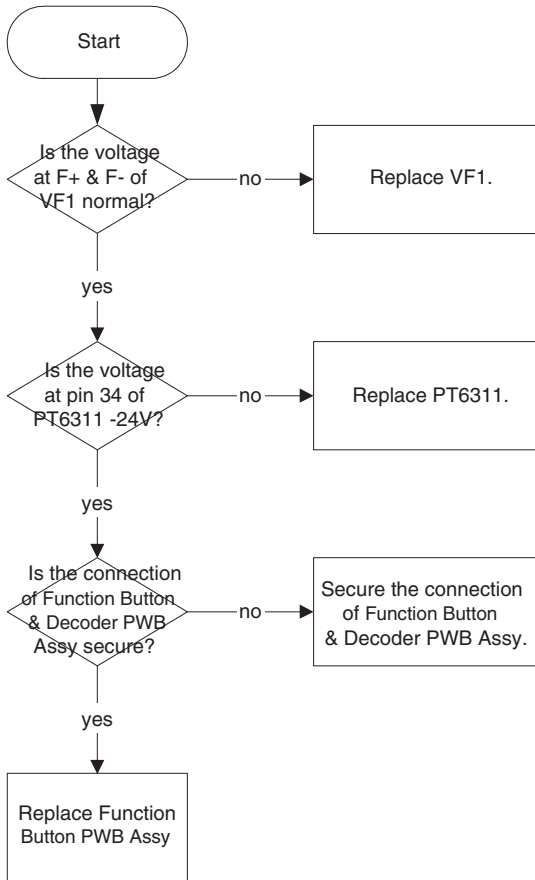
# TROUBLESHOOTING (To replace Pg 29-39 of SC No. 0015E)

## SYMPTOM: POWER CIRCUIT ABNORMAL (REVISED)

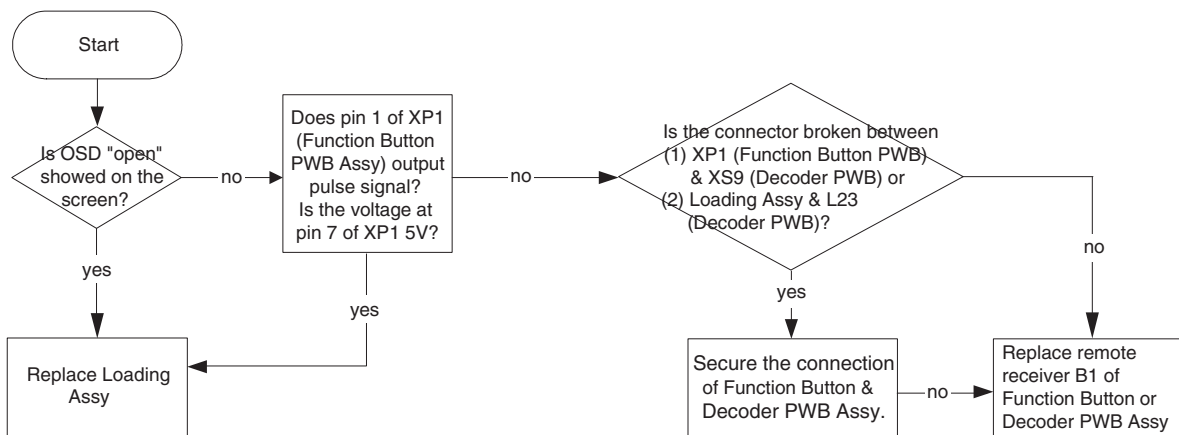


**(To replace Pg 29-39 of SC No. 0015E)**

**SYMPTOM: OUTPUT DISPLAY ABNORMAL (REVISED)**



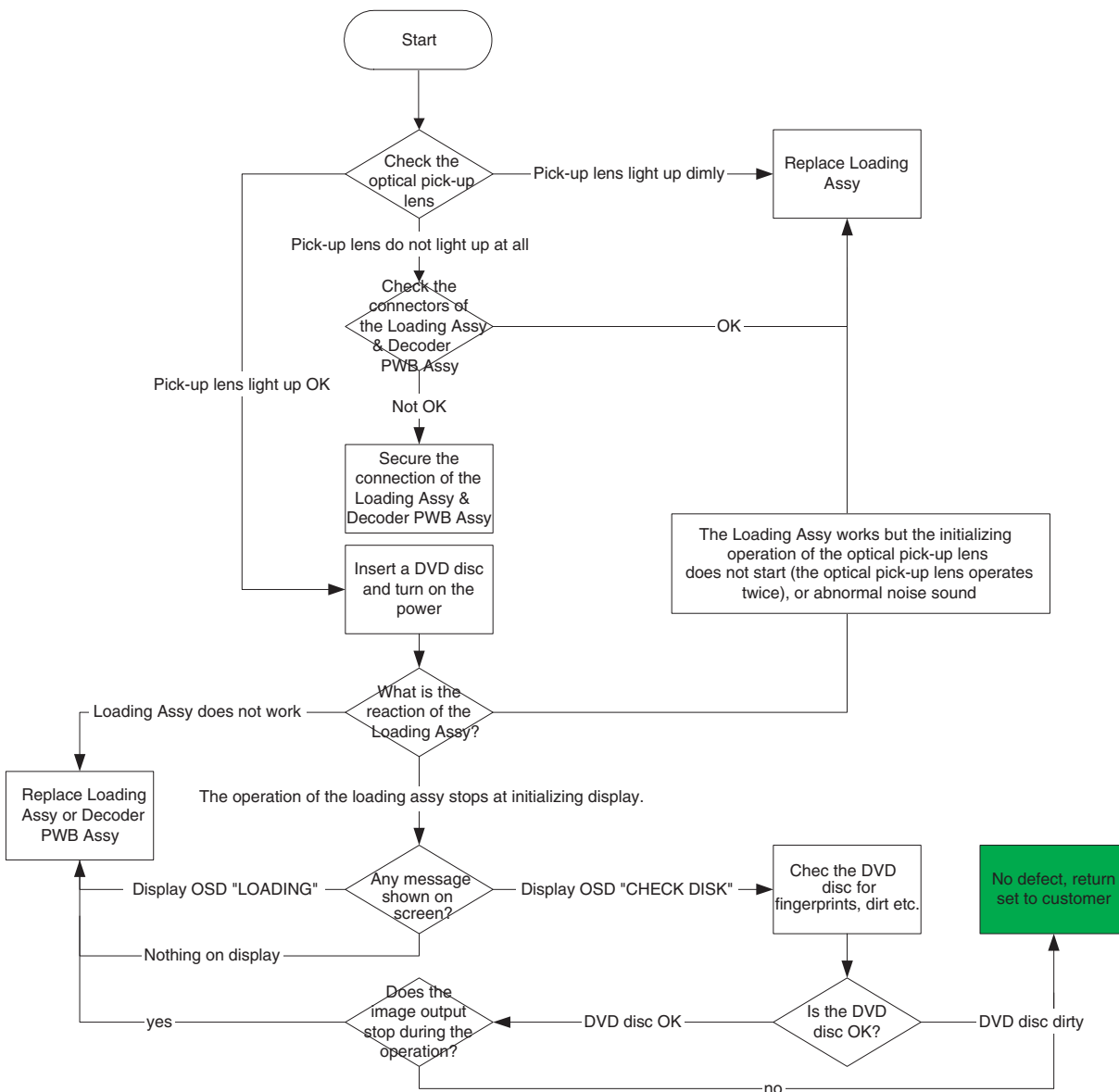
**SYMPTOM: OPEN/CLOSE TRAY ABNORMAL (REVISED)**





# (To replace Pg 29-39 of SC No. 0015E)

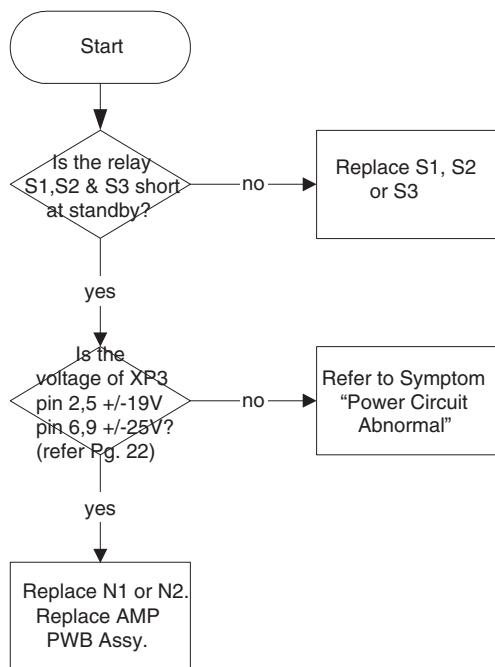
## SYMPTOM: LOAD DISC ABNORMAL (REVISED)



## (To replace Pg 29-39 of SC No. 0015E)


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### SYMPTOM: AUDIO CIRCUIT ABNORMAL (REVISED)



# REPLACEMENT PART LIST (To replace Pg 40-50 of SC No. 0015E)


The following service parts list are available for purchase. Serviceman may quote the components shown in this page for servicing purposes.


PRODUCT SAFETY NOTE : Components marked with a  have special characteristics important to safety. The use of a substitute replacement part which does not have the same safety characteristics may create shock, fire or other hazards. Do not degrade the safety of the receiver through improper servicing.

SYMBOL No.	PART No.	DESCRIPTIONS
<b>PWB ASSY</b>		
	YZE22112	Decoder PWB Assy
	YZE22137	SD/USB PWB Assy
	YZEA7892	FM Receiver Board TFCF1E806A
	YZES7710	Power PWB Assy
	YZES7711	MIC PWB Assy
	YZES7712-1	AMP PWB Assy
	YZES7713	Function Button PWB Assy
<b>IC</b>		
	N1 YZEA4042B	UTC4558 (MIC PWB Assy)
	N2 YZEA4042B	UTC4558 (MIC PWB Assy)
	N3 YZEA4503	PT2399(L) (MIC PWB Assy)
	N1 YZEA4800	STK433-930 (AMP PWB Assy)
	N2 YZEA4390	TDA7294 (AMP PWB Assy)
	N1 YZEP4399	PT6311 (Function Button PWB Assy)
	N301 YZEA4756	NCP1203P60G (Power PWB Assy)
	N302 YZEA4714B	MC7809CTG (Power PWB Assy)
	N303 YZEA4720	PQ1CG3032RZ (Power PWB Assy)
	N304 YZEA4752A	FCF10A20 (Power PWB Assy)
	N305 YZEA4557A	UTC431 (Power PWB Assy)
	N306 YZEA4752A	FCF10A20 (Power PWB Assy)
	N307 YZEA4636	CW7905CS (Power PWB Assy)
	V1 YZEA5009	KTC9014C (MIC PWB Assy)
	V2 YZEA5009	KTC9014C (MIC PWB Assy)
	V304 YZEA5114	PC817 (Power PWB Assy)
<b>CAPACITORS</b>		
	C301 YZEA3447A	MKP61-275VAC-0.22u-K (Power PWB Assy)
	C303 YZEA3312	CT81-12B-2B4-471K-400VAC-YA (Power PWB Assy)
	C304 YZEA3312	CT81-12B-2B4-471K-400VAC-YA (Power PWB Assy)
	C305 YZEA3496	CD293-120uF-M-400V (Power PWB Assy)
	C307 YZEA2081	CT81-18B-2E4-472M-400VAC-YA (Power PWB Assy)
<b>DIODE &amp; TRIODE</b>		
	V301 YZEA5128	STP7NC70ZFP (Power PWB Assy)
	VD315 YZEA1597	KBU8K(806) (Power PWB Assy)

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SYMBOL No.	PART No.	DESCRIPTIONS
<b>MISCELLANEOUS</b>		
	F3011	YZEA6760 FUSE 6183.15MXA (Power PWB Assy)
	VF1	YZEA6918A VFD20-0605A (Function Button PWB Assy)
	L301	YZEA7102 LV-ET28A FILTER (Power PWB Assy)
	T301	YZEA7348 DCK-2620 TRANSFORMER (Power PWB Assy)
	B1	YZEA6733A AT138B (Function Button PWB Assy)
	S1	YZEA7346 FTR-F4AK012T (AMP PWB Assy)
	S2	YZEA7346 FTR-F4AK012T (AMP PWB Assy)
	S3	YZEA7346 FTR-F4AK012T (AMP PWB Assy)
		YZES06152 R/C Handset HTD-RM210
		YZES8134E DVD Mechanism KHL-310C Loading assy
		YZES2586 Speaker Assy (4 + 1)
		YZES2588 Subwoofer Assy
	S42-S43	YZEA9285 DVA-2630 CONNECT WIRE 1 (Function Button PWB Assy)
	S15-S34	YZEA9286 DVA-2630 CONNECT WIRE 2 (Function Button PWB Assy)
	S35-S38	YZEA9287 DVA-2630 CONNECT WIRE 3 (Function Button PWB Assy)
	XS3-XS2	YZEA9288 DVA-2630 SWITCH WIRE (Function Button PWB Assy)
	XS1	YZEA9289 DVA-2630 VFD POWER WIRE (Function Button PWB Assy)
	S46-S47	YZEA9464 DVA-2630 CONNECT WIRE 4 (Function Button PWB Assy)
		YZES30967 2630 CARD SIGNAL WIRE
		YZES31019 2630 DECODER POWER WIRE
		YZES30969 2630 LOADING WIRE
		YZES30970 2630 OPEN WIRE
		YZES30971 CC-1.25×11×190(A) WIRE
		YZES3898 CC-0.5×24×400 WIRE
		YZES3897 CC-1.0×12×360 WIRE
		YZES3772 CC-1.0×8×170 WIRE
	XP3	YZEA9199 MIC WIRE (MIC PWB Assy)
	XP303	YZEA9284 DVA2630 POWER WIRE (Power PWB Assy)

## PART LIST (FOR REFERENCE ONLY) (To replace Pg 40-50 of SC No. 0015E)

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PART No.	PART NAME	Q'TY
<b>HTD-K210</b>		
YZE22112	DHC2630 DECODER ASS'Y	1
YZE22137	DVA2630SD/USB ASS'Y	1
YZEA7892	TFCF1E806A RECEIVER	1
YZES06152	HTD-RM210 REMOTE	1
YZES2586	HTD-K210 SPEAKER ASS'Y	1
YZES2588	HTD-K210 SUBWOOFER SPEAKER	1
YZES2701	7# BATTERY	2
YZES3035	RCA CORD AUDIO	1
YZES3022A	RCA CORD VIDEO	1
YZES3024	POWER CORD HOLE	1
YZES30967	2630 CARD SIGNAL WIRE	1
YZES31019	2630 DECODER POWER WIRE	1
YZES30969	2630 LOADING WIRE	1
YZES30970	2630 OPEN WIRE	1
YZES30971	CC-1.25×11×190(A) WIRE	1
YZES3898	CC-0.5×24×400 WIRE	1
YZES3897	CC-1.0×12×360 WIRE	1
YZES3772	CC-1.0×8×170 WIRE	1
YZES3609	5M SPEAKER WIRE	1
YZES3610	8M SPEAKER WIRE	1
YZES4308	A300 FM ANTENNA	1
YZES8134E	KHL-310C LOADING ASS'Y	1
YZES7710	AD2630 POWER ASS'Y	1
YZES7711	DVA2630 MIC ASS'Y	1
YZES7712-1	DVA2630 AMP ASS'Y	1
YZES7713	DVA2630 FUNCTION BUTTON ASS'Y	1
YZES2638	UL POWER CORD	1
YZES2672	VDE POWER CORD	1
YZES2678	BS POWER CORD	1
YZES14154D	HTD-K210 OWNER MANUAL (ENGLISH)	1
YZES14154E	HTD-K210 OWNER MANUAL (CHINESE)	1
YZES14154F	HTD-K210 OWNER MANUAL (RUSSIA)	1
YZES14154G	HTD-K210 OWNER MANUAL (ARABIA)	1
YZEA7755	CCT5902-0701C SOCKET (GERMAN)	1

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REF No.	PART No.	PART NAME
<b>DVA2630 FUNCTION BUTTON ASS'Y</b>		
S1	YZEA6434	TOUCH EVQ11L04W
S2	YZEA6434	TOUCH EVQ11L04W
S3	YZEA6434	TOUCH EVQ11L04W
S4	YZEA6434	TOUCH EVQ11L04W
S5	YZEA6434	TOUCH EVQ11L04W
S6	YZEA6434	TOUCH EVQ11L04W
S7	YZEA6434	TOUCH EVQ11L04W
S8	YZEA6434	TOUCH EVQ11L04W
S9	YZEA6434	TOUCH EVQ11L04W
S10	YZEA6434	TOUCH EVQ11L04W
S11	YZEA6434	TOUCH EVQ11L04W
S12	YZEA6434	TOUCH EVQ11L04W
S14	YZEA6434	TOUCH EVQ11L04W
C1	YZEA2056	CS1-06B-104Z-63V-Y5V
C2	YZEA3579	CD11CX-100uF-M-16V
C3	YZEA2056	CS1-06B-104Z-63V-Y5V
C101	YZEA2056	CS1-06B-104Z-63V-Y5V
C102	YZEA2056	CS1-06B-104Z-63V-Y5V
C103	YZEA3579	CD11CX-100uF-M-16V
R1	YZEG0903	RT13-0.167W-620±1%
R2	YZEG0903	RT13-0.167W-620±1%
R3	YZEG0903	RT13-0.167W-620±1%
R4	YZEG0903	RT13-0.167W-620±1%
R101	YZEG0784	RT13-0.167W-510±5%
R102	YZEG0735	RT13-0.167W-10K±5%
R103	YZEG0735	RT13-0.167W-10K±5%
R104	YZEG0735	RT13-0.167W-10K±5%
R105	YZEG0735	RT13-0.167W-10K±5%
R106	YZEG0704	RT13-0.167W-4.7±5%
R107	YZEG0735	RT13-0.167W-10K±5%
R108	YZEG0735	RT13-0.167W-10K±5%
R109	YZEG0735	RT13-0.167W-10K±5%
R110	YZEG0735	RT13-0.167W-10K±5%
R111	YZEG0735	RT13-0.167W-10K±5%
R112	YZEG0735	RT13-0.167W-10K±5%
R113	YZEG0728	RT13-0.167W-4.7K±5%
R114	YZEG0714	RT13-0.167W-180±5%
R115	YZEG0714	RT13-0.167W-180±5%
R116	YZEG0710	RT13-0.167W-56±5%
R117	YZEG0705	RT13-0.167W-10±5%

REF No.	PART No.	PART NAME
VD1	YZEA5004	1N4148
VD2	YZEA5004	1N4148
VD3	YZEA5004	1N4148
VD4	YZEA5004	1N4148
VD5	YZEA5004	1N4148
VD6	YZEA1118A	CZ5V6
LED1	YZEA1500	RED LED
LED2	YZEA1661	BLUE LED
LED3	YZEA1661	BLUE LED
LED4	YZEA1661	BLUE LED
LED5	YZEA1661	BLUE LED
B1	YZEA6733A	AT138B
N1	YZEP4399	PT6311
RP1	YZEA6216	KHX3-3W1D
VF1	YZEA6918A	VFD20-0605A
XP1	YZEP7075	FPC1WE-SMT-8PW
XS1	YZEA9289	DVA-2630 VFD POWER WIRE
XS2	YZEA6519	S-3B-PH SOCKET
<b>DVA2630 MIC ASS'Y</b>		
<b>RESISTOR</b>		
R1	YZEG0754	RT13-0.167W-120K±5%
R2	YZEG0722	RT13-0.167W-2.2K±5%
R3	YZEG0738	RT13-0.167W-15K±5%
R4	YZEG0740	RT13-0.167W-20K±5%
R5	YZEG0728	RT13-0.167W-4.7K±5%
R6	YZEG0754	RT13-0.167W-120K±5%
R7	YZEG0722	RT13-0.167W-2.2K±5%
R8	YZEG0738	RT13-0.167W-15K±5%
R9	YZEG0735	RT13-0.167W-10K±5%
R10	YZEG0705	RT13-0.167W-10±5%
R11	YZEG0705	RT13-0.167W-10±5%
R12	YZEG0724	RT13-0.167W-3K±5%
R13	YZEG0735	RT13-0.167W-10K±5%
R14	YZEG0728	RT13-0.167W-4.7K±5%
R16	YZEG0735	RT13-0.167W-10K±5%
R17	YZEG0738	RT13-0.167W-15K±5%
R18	YZEG0753	RT13-0.167W-100K±5%
R19	YZEG0731	RT13-0.167W-6.8K±5%
R20	YZEG0724	RT13-0.167W-3K±5%
R21	YZEG0753	RT13-0.167W-100K±5%
R22	YZEG0737	RT13-0.167W-12K±5%

## PART LIST (FOR REFERENCE ONLY) (To replace Pg 40-50 of SC No. 0015E)

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REF No.	PART No.	PART NAME
R23	YZEG0728	RT13-0.167W-4.7K±5%
R24	YZEG0737	RT13-0.167W-12K±5%
R25	YZEG0735	RT13-0.167W-10K±5%
R26	YZEG0719	RT13-0.167W-1K±5%
R27	YZEG0735	RT13-0.167W-10K±5%
R28	YZEG0753	RT13-0.167W-100K±5%
R29	YZEG0735	RT13-0.167W-10K±5%
R30	YZEG0753	RT13-0.167W-100K±5%
R31	YZEG0719	RT13-0.167W-1K±5%
R32	YZEG0753	RT13-0.167W-100K±5%
R33	YZEG0722	RT13-0.167W-2.2K±5%
R34	YZEG0705	RT13-0.167W-10±5%
R35	YZEG0722	RT13-0.167W-2.2K±5%
R36	YZEG0722	RT13-0.167W-2.2K±5%
R37	YZEG0722	RT13-0.167W-2.2K±5%
R38	YZEG0705	RT13-0.167W-10±5%
R39	YZEG0705	RT13-0.167W-10±5%
<b>RHEOSTAT</b>		
RP1	YZEA0511	WH06-2-22K
RP2	YZEA0638	WH9011-2AC-50KC 20/5
RP3	YZEA0638	WH9011-2AC-50KC 20/5
<b>CAPACITOR</b>		
C1	YZEA2015	CC1-05B-20K-63V-CH
C2	YZEA2056	CS1-06B-104Z-63V-Y5V
C3	YZEA3508	CD110-4.7uF-M-16V
C4	YZEA3505	CD110-1u-M-16V
C5	YZEA3509	CD110-10u-M-16V
C6	YZEA3508	CD110-4.7uF-M-16V
C7	YZEA3579	CD11CX-100uF-M-16V
C8	YZEA3508	CD110-4.7uF-M-16V
C9	YZEA3509	CD110-10u-M-16V
C10	YZEA3505	CD110-1u-M-16V
C11	YZEA3607	CD110X-22u-M-50V
C12	YZEA2015	CC1-05B-20K-63V-CH
C13	YZEA3512	CD110X-47u-M-16V
C14	YZEA3044	CL11-5600P-100V-K
C15	YZEA3509	CD110-10u-M-16V
C16	YZEA2015	CC1-05B-20K-63V-CH
C17	YZEA3579	CD11CX-100uF-M-16V
C18	YZEA3508	CD110-4.7uF-M-16V
C19	YZEA3512	CD110X-47u-M-16V

REF No.	PART No.	PART NAME
C20	YZEA3579	CD11CX-100uF-M-16V
C21	YZEA3044	CL11-5600P-100V-K
C22	YZEA3508	CD110-4.7uF-M-16V
C23	YZEA2038	CC1-10B-511K-63V-SL
C24	YZEA2056	CS1-06B-104Z-63V-Y5V
C25	YZEA3041	CL11-3900P-100V-K
C26	YZEA3509	CD110-10u-M-16V
C27	YZEA3508	CD110-4.7uF-M-16V
C28	YZEA3512	CD110X-47u-M-16V
C29	YZEA3508	CD110-4.7uF-M-16V
C30	YZEA2038	CC1-10B-511K-63V-SL
C31	YZEA2056	CS1-06B-104Z-63V-Y5V
C32	YZEA2056	CS1-06B-104Z-63V-Y5V
C33	YZEA2056	CS1-06B-104Z-63V-Y5V
C34	YZEA2056	CS1-06B-104Z-63V-Y5V
C35	YZEA2015	CC1-05B-20K-63V-CH
C36	YZEA2056	CS1-06B-104Z-63V-Y5V
C37	YZEA3579	CD11CX-100uF-M-16V
C38	YZEA2056	CS1-06B-104Z-63V-Y5V
C39	YZEA3579	CD11CX-100uF-M-16V
C40	YZEA2056	CS1-06B-104Z-63V-Y5V
C41	YZEA2056	CS1-06B-104Z-63V-Y5V
C42	YZEA2056	CS1-06B-104Z-63V-Y5V
C43	YZEA2056	CS1-06B-104Z-63V-Y5V
C44	YZEA2056	CS1-06B-104Z-63V-Y5V
<b>IC</b>		
N1	YZEA4042B	UTC4558
N2	YZEA4042B	UTC4558
N3	YZEA4503	PT2399(L)
<b>OTHER</b>		
V1	YZEA5009	KTC9014C
V2	YZEA5009	KTC9014C
X1	YZEA6871B	CKX-6.35-7 JACK
X2	YZEA6871B	CKX-6.35-7 JACK
XP3	YZEA9199	MIC WIRE
<b>AD2630 POWER ASS'Y</b>		
<b>RESISTOR</b>		
R301	YZEG0080	RT14-0.25W-39K±5%
R302	YZEG0074	RT14-0.25W-22K±5%
R303	YZEG0753	RT13-0.167W-100K±5%
R304	YZEG0712	RT13-0.167W-100±5%

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REF No.	PART No.	PART NAME	REF No.	PART No.	PART NAME
R305	YZEG0735	RT13-0.167W-10K±5%	C327	YZEA3495A	CD288-2200uF-M-25V
R306	YZEG0707	RT13-0.167W-22±5%	C328	YZEA3607	CD110X-22uF-M-50V
R307	YZEG0010	RT14-0.25W-22±5%	C339	YZEA3607	CD110X-22uF-M-50V
R308	YZEG0719	RT13-0.167W-1K±5%	DIODE		
R309	YZEA0416	RX27-1-3W-47K±5%	VD302	YZEA5005A	1N4007-YG
R310	YZEA0415	RGC2-2W-0.22J±10%	VD303	YZEA5163	SR560(BL)
R312	YZEG0705	RT13-0.167W-10±5%	VD304	YZEA1598	HER208-YG
R313	YZEG0742	RT13-0.167W-24K±5%	VD305	YZEA5004	1N4148
R314	YZEG0909	RT13-0.167W-3.6K±5%	VD306	YZEA5004	1N4148
R315	YZEG0778	RT13-0.167W-680±5%	VD309	YZEA1619	E6KE250A
R316	YZEG0724	RT13-0.167W-3K±5%	VD310	YZEA1202A	SF16-YG
R317	YZEG0909	RT13-0.167W-3.6K±5%	VD311	YZEA5004	1N4148
R318	YZEG0719	RT13-0.167W-1K±5%	VD312	YZEA1202A	SF16-YG
R319	YZEA1142A	CZ4V3	VD313	YZEA5129	SF36-YG
R320	YZEG0728	RT13-0.167W-4.7K±5%	VD314	YZEA5129	SF36-YG
R321	YZEG0719	RT13-0.167W-1K±5%	VD315	YZEA1597	KBU8K(806)
R322	YZEG0728	RT13-0.167W-4.7K±5%	TRIODE		
R336	YZEG0759	RT13-0.167W-220K±5%	V301	YZEA5128	STP7NC70ZFP
R337	YZEG0744	RT13-0.167W-33K±5%	V302	YZEA5104A	8550D
CAPACITOR			V303	YZEA5009A	9014C
△C301	YZEA3447A	MKP61-275VAC-0.22u-K	△V304	YZEA5114	PC817
C302	YZEA2028	CC1-05B-121K-63V-SL	V305	YZEA5009A	9014C
△C303	YZEA3312	CT81-12B-2B4-471K-400VAC-YA	V306	YZEA5009A	9014C
△C304	YZEA3312	CT81-12B-2B4-471K-400VAC-YA	V307	YZEA5104A	8550D
C305	YZEA3496	CD293-120uF-M-400V	IC		
C306	YZEA2077	CT81-14B-2E4-103M-1KV	N301	YZEA4756	NCP1203P60G
△C307	YZEA2081	CT81-18B-2E4-472M-400VAC-YA	N302	YZEA4714B	MC7809CTG
C308	YZEA2048	CT1-05B-472M-63V-Y5V	N303	YZEA4720	PQ1CG3032RZ
C310	YZEA2036	CC1-08B-391K-63V-SL	N304	YZEA4752A	FCF10A20
C311	YZEA2063	CC81-06B-47K-1KV-SL	N305	YZEA4557A	UTC431
C313	YZEA2056	CS1-06B-104Z-63V-Y5V	N306	YZEA4752A	FCF10A20
C314	YZEA3495A	CD288-2200uF-M-25V	N307	YZEA4636	CW7905CS
C315	YZEA3607	CD110X-22uF-M-50V	OTHER		
C316	YZEA3495A	CD288-2200uF-M-25V	△T301	YZEA7348	DCK-2620 TRANSFORMER
C317	YZEA3607	CD110X-22uF-M-50V	F301	YZEA6929	FC502H FUSE HOLDER
C318	YZEA3514	CD110X-220uF-M-16V	△F3011	YZEA6760	FUSE 6183.15MXA
C319	YZEA3561	CD110X-470uF-M-10V	△L301	YZEA7102	LV-ET28A FILTER
C321	YZEA3244	CD288-470uF-M-35V	L302	YZEA7020	ZBF253L-4
C322	YZEA3607	CD110X-22uF-M-50V	L303	YZEA7020	ZBF253L-4
C323	YZEA3509	CD110-10uF-M-16V	L304	YZEA7233	220uH
C325	YZEA3495A	CD288-2200uF-M-25V	L305	YZEA7005	100uH



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REF No.	PART No.	PART NAME
L306	YZEA1126B	CZ6V2
L307	YZEA7231	COIL-4.7uH-SZ
XP301	YZEA6601	2 PIN SOCKET
XP302	YZEA6508	B-3B-PH 3 PIN SOCKET
XP303	YZEA9284	DVA2630 POWER WIRE
XP304	YZEA6512	B-7B-PH 7 PIN SOCKET
<b>DVA2630 AMP ASS'Y</b>		
R1	YZEA0476	RY16-1w-10+/-5%
R2	YZEA0476	RY16-1w-10+/-5%
R4	YZEA10020	RJ-1W-1.5K+/-5%
R6	YZEA0415	RGC2-2W-0.22J+/-10%
R7	YZEA0415	RGC2-2W-0.22J+/-10%
R8	YZEA0415	RGC2-2W-0.22J+/-10%
R9	YZEA0415	RGC2-2W-0.22J+/-10%
R10	YZEA0415	RGC2-2W-0.22J+/-10%
R11	YZEG0719	RT13-1/6w-1k+/-5%
R12	YZEG0753	RT13-1/6w-100k+/-5%
R13	YZEG0919	RT13-1/6W-3.9K+/-1%
R14	YZEG0784	RT13-1/6w-56k+/-5%
R15	YZEG0719	RT13-1/6w-1k+/-5%
R16	YZEG0746	RT13-1/6w-39k+/-5%
R18	YZEG0746	RT13-1/6w-39k+/-5%
R19	YZEG0735	RT13-1/16w-10k+/-5%
R21	YZEG0719	RT13-1/6w-1k+/-5%
R22	YZEG0753	RT13-1/6w-100k+/-5%
R23	YZEG0919	RT13-1/6W-3.9K+/-1%
R24	YZEG0784	RT13-1/6w-56k+/-5%
R25	YZEG0719	RT13-1/6w-1k+/-5%
R26	YZEG0746	RT13-1/6w-39k+/-5%
R31	YZEG0719	RT13-1/6w-1k+/-5%
R32	YZEG0753	RT13-1/6w-100k+/-5%
R33	YZEG0919	RT13-1/6W-3.9K+/-1%
R34	YZEG0784	RT13-1/6w-56k+/-5%
R35	YZEG0719	RT13-1/6w-1k+/-5%
R36	YZEG0746	RT13-1/6w-39k+/-5%
R41	YZEG0719	RT13-1/6w-1k+/-5%
R42	YZEG0753	RT13-1/6w-100k+/-5%
R43	YZEG0919	RT13-1/6W-3.9K+/-1%
R44	YZEG0784	RT13-1/6w-56k+/-5%
R45	YZEG0719	RT13-1/6w-1k+/-5%
R46	YZEG0746	RT13-1/6w-39k+/-5%

REF No.	PART No.	PART NAME
R51	YZEG0719	RT13-1/6w-1k+/-5%
R52	YZEG0753	RT13-1/6w-100k+/-5%
R53	YZEG0919	RT13-1/6W-3.9K+/-1%
R54	YZEG0784	RT13-1/6w-56k+/-5%
R55	YZEG0719	RT13-1/6w-1k+/-5%
R56	YZEG0746	RT13-1/6w-39k+/-5%
R61	YZEG0719	RT13-1/6w-1k+/-5%
R62	YZEG0735	RT13-1/16w-10k+/-5%
R63	YZEG0719	RT13-1/6w-1k+/-5%
R64	YZEG0753	RT13-1/6w-100k+/-5%
R65	YZEG0758	RT13-1/6w-200k+/-5%
R66	YZEG0719	RT13-1/6w-1k+/-5%
R67	YZEA0210	RJ-1W-1.2K+/-5%
R68	YZEG0759	RT13-1/6w-220k+/-5%
R69	YZEG0750	RT13-1/6W-62K+/-5%
R70	YZEG0735	RT13-1/16w-10k+/-5%
R81	YZEA0476	RY16-1w-10+/-5%
R82	YZEA0476	RY16-1w-10+/-5%
R83	YZEA0476	RY16-1w-10+/-5%
R84	YZEA0476	RY16-1w-10+/-5%
R85	YZEA0476	RY16-1w-10+/-5%
R86	YZEA0476	RY16-1w-10+/-5%
R87	YZEA0436	RY26-1W-2.2+/-5%
R88	YZEA0436	RY26-1W-2.2+/-5%
R89	YZEA0436	RY26-1W-2.2+/-5%
R90	YZEA0436	RY26-1W-2.2+/-5%
R91	YZEA0436	RY26-1W-2.2+/-5%
R92	YZEA0436	RY26-1W-2.2+/-5%
R101	YZEA0438	RJ-1w-22+/-5%
R102	YZEG0735	RT13-1/16w-10k+/-5%
R103	YZEG0735	RT13-1/16w-10k+/-5%
R104	YZEG0735	RT13-1/16w-10k+/-5%
R105	YZEG0748	RT13-1/6w-47k+/-5%
R106	YZEG0748	RT13-1/6w-47k+/-5%
R107	YZEG0748	RT13-1/6w-47k+/-5%
R108	YZEG0748	RT13-1/6w-47k+/-5%
R109	YZEG0748	RT13-1/6w-47k+/-5%
R110	YZEG0748	RT13-1/6w-47k+/-5%
R111	YZEG0748	RT13-1/6w-47k+/-5%
R112	YZEG0718	RT13-1/6w-470+/-5%
R113	YZEG0761	RT13-1/6ww-300k+/-5%

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REF No.	PART No.	PART NAME	REF No.	PART No.	PART NAME
R114	YZEG0753	RT13-1/6w-100k+/-5%	C56	YZEA2006	CC1-05B-3.3D-63V-CH
R115	YZEG0023	RT14-0.25w-100+/-5%	C61	YZEA3510	CD110-22UF-M-16V
CAPACITOR			C62	YZEA3510	CD110-22UF-M-16V
C1	YZEA3521	CD110X-470UF-M-25V	C63	YZEA3512	CD110X-47UF-M-16V
C2	YZEA3308	CT4D-2F4-0.47UF-63V-S	C64	YZEA3607	CD110X-22UF-M-50V
C3	YZEA3521	CD110X-470UF-M-25V	C65	YZEA3512	CD110X-47UF-M-16V
C4	YZEA3308	CT4D-2F4-0.47UF-63V-S	C66	YZEA2056	CS1-06B-104Z-63V-Y5V
C5	YZEA3613	CD110X-100UF-M-25V	C67	YZEA2056	CS1-06B-104Z-63V-Y5V
C6	YZEA2056	CS1-06B-104Z-63V-Y5V	C68	YZEA2056	CS1-06B-104Z-63V-Y5V
C7	YZEA3613	CD110X-100UF-M-25V	C81	YZEA3306	CT4D-2F4-0.22UF-63V-S
C8	YZEA2056	CS1-06B-104Z-63V-Y5V	C82	YZEA3306	CT4D-2F4-0.22UF-63V-S
C11	YZEA3510	CD110-22UF-M-16V	C83	YZEA3306	CT4D-2F4-0.22UF-63V-S
C12	YZEA2324	CT1-05B-471K-50V-Y5P	C84	YZEA3306	CT4D-2F4-0.22UF-63V-S
C13	YZEA3510	CD110-22UF-M-16V	C85	YZEA3306	CT4D-2F4-0.22UF-63V-S
C14	YZEA2032	CC1-05B-221K-63V-SL	C86	YZEA3306	CT4D-2F4-0.22UF-63V-S
C15	YZEA3511	CD110-33UF-M-16V	C101	YZEA3613	CD110X-100UF-M-25V
C16	YZEA2006	CC1-05B-3.3D-63V-CH	C102	YZEA3576	CD110-2.2UF-M-50V
C17	YZEA3512	CD110X-47UF-M-16V	C103	YZEA3516	CD110X-470UF-M-16V
C21	YZEA3510	CD110-22UF-M-16V	C104	YZEA3509	CD110-10UF-M-16V
C22	YZEA2324	CT1-05B-471K-50V-Y5P	C105	YZEA3510	CD110-22UF-M-16V
C23	YZEA3510	CD110-22UF-M-16V	C106	YZEA3509	CD110-10UF-M-16V
C24	YZEA2032	CC1-05B-221K-63V-SL	C121	YZEP20015	GRM39F104Z25PT
C25	YZEA3511	CD110-33UF-M-16V	C122	YZEP20015	GRM39F104Z25PT
C26	YZEA2006	CC1-05B-3.3D-63V-CH	C123	YZEP20015	GRM39F104Z25PT
C31	YZEA3510	CD110-22UF-M-16V	C124	YZEP20015	GRM39F104Z25PT
C32	YZEA2324	CT1-05B-471K-50V-Y5P	C125	YZEP20015	GRM39F104Z25PT
C33	YZEA3510	CD110-22UF-M-16V	C126	YZEP20015	GRM39F104Z25PT
C34	YZEA2032	CC1-05B-221K-63V-SL	TRANSISTOR		
C35	YZEA3511	CD110-33UF-M-16V	V101	YZEA5022	2N5551
C36	YZEA2006	CC1-05B-3.3D-63V-CH	V102	YZEA5022	2N5551
C41	YZEA3510	CD110-22UF-M-16V	V103	YZEA5023	2N5401
C42	YZEA2324	CT1-05B-471K-50V-Y5P	V104	YZEA5022	2N5551
C43	YZEA3510	CD110-22UF-M-16V	V105	YZEA5014B	8050C
C44	YZEA2032	CC1-05B-221K-63V-SL	V106	YZEA5022	2N5551
C45	YZEA3511	CD110-33UF-M-16V	VD61	YZEA5001	IN4002
C46	YZEA2006	CC1-05B-3.3D-63V-CH	VD101	YZEA5001	IN4002
C51	YZEA3510	CD110-22UF-M-16V	VD102	YZEA5001	IN4002
C52	YZEA2324	CT1-05B-471K-50V-Y5P	VD103	YZEA1126	HZ6C1
C53	YZEA3510	CD110-22UF-M-16V	VD104	YZEA5001	IN4002
C54	YZEA2032	CC1-05B-221K-63V-SL	OTHER		
C55	YZEA3511	CD110-33UF-M-16V	L1	YZEA6997	5.5+/-0.7UH

## PART LIST (FOR REFERENCE ONLY) (To replace Pg 40-50 of SC No. 0015E)

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REF No.	PART No.	PART NAME
L2	YZEA6997	5.5+/-0.7UH
L3	YZEA6997	5.5+/-0.7UH
L4	YZEA6997	5.5+/-0.7UH
L5	YZEA6997	5.5+/-0.7UH
L6	YZEA6997	5.5+/-0.7UH
L7	YZEA6879	100UH
N1	YZEA4800	STK433-930
N2	YZEA4390	TDA7294V
S1	YZEA7346	FTR-F4AK012T
S2	YZEA7346	FTR-F4AK012T
S3	YZEA7346	FTR-F4AK012T
XP4	YZEA9130	A2611 earthing wire
XS1	YZEA6953	SCT12 PLUG
XS2	YZEA6556	FABSD1252 socket
XS3	YZEA6514	B-9B-PH socket
<b>DVA2630SD/USB ASS'Y</b>		
RESISTOR		
R1	YZEP11209	RC-03K433JT
R2	YZEP11209	RC-03K433JT
R3	YZEP11209	RC-03K433JT
R4	YZEP11209	RC-03K433JT
R5	YZEP11209	RC-03K433JT
R6	YZEP11009	RC-03K102JT
R7	YZEP11209	RC-03K433JT
R8	YZEP11209	RC-03K433JT
R9	YZEP11209	RC-03K433JT
R10	YZEP11209	RC-03K433JT
R11	YZEP11000	RC-03K000JT
R12	YZEP11000	RC-03K000JT
R13	YZEP11013	RC-03K103JT
R14	YZEP11012	RC-03K472JT
R15	YZEP11012	RC-03K472JT
R16	YZEP11209	RC-03K433JT
R17	YZEP11209	RC-03K433JT
R18	YZEP11209	RC-03K433JT
R19	YZEP11209	RC-03K433JT
R20	YZEP11209	RC-03K433JT
R21	YZEP11209	RC-03K433JT
R22	YZEP11209	RC-03K433JT
R23	YZEP11209	RC-03K433JT
R24	YZEP11209	RC-03K433JT

REF No.	PART No.	PART NAME
R25	YZEP11130	RC-03K391JT
R26	YZEP11046	RC-03K390JT
R27	YZEP11046	RC-03K390JT
R28	YZEP11012	RC-03K472JT
R29	YZEP11013	RC-03K103JT
R30	YZEP11013	RC-03K103JT
R31	YZEP11013	RC-03K103JT
CAPACITOR		
C1	YZEP31093A	UZS1C100MCL1GB
C2	YZEP31093A	UZS1C100MCL1GB
C3	YZEP30014	EEE1CA101WP
C4	YZEP20018	GRM39CH100J50PT
C5	YZEP20015	GRM39F104Z25PT
C6	YZEP20015	GRM39F104Z25PT
C7	YZEP20015	GRM39F104Z25PT
C8	YZEP20015	GRM39F104Z25PT
C9	YZEP20018	GRM39CH100J50PT
C10	YZEP20015	GRM39F104Z25PT
C11	YZEP20018	GRM39CH100J50PT
C12	YZEP20018	GRM39CH100J50PT
C13	YZEP20035	GRM39F105Z10PT
C14	YZEP20015	GRM39F104Z25PT
C15	YZEP20015	GRM39F104Z25PT
CRYSTAL OSCILLATOR		
JP1	YZEA7593	HC-49U/S 24MHz
INDUCTOR		
L1	YZEP6659	BGH2012B60LT
L2	YZEP6659	BGH2012B60LT
OTHER		
U1	YZEP90449A	UB6220FB2-131
U2	YZEP90351	AP1117D33LA
U3	YZEP90254	ADG713BRUZ-REEL7
U4	YZEP90420	AIC1526-0PS
V1	YZEP5073A	2SD601AR
V2	YZEP5073A	2SD601AR
V3	YZEP5766	STZ6.2NT146
V4	YZEP5766	STZ6.2NT146
V5	YZEP5073A	2SD601AR
X1	YZEA6522	S-6B-PH 6 PIN SOCKET
XP1	YZEP7050	MSD319-PF
XP2	YZEA7558	MZ517-4A-4 USB JACK

# **HITACHI**

**Inspire the Next**

# HITACHI

## SERVICE MANUAL

SC

No. 0015E

# HTD-K210



### Caution

Be sure to read this manual before servicing. To assure safety from fire, electric shock, injury harmful radiation and materials, various measures are provided in this Hitachi DVD home theatre system. Be sure to read the cautionary items described in the manual to maintain safety before servicing.

### Service warning

1. Do not attempt to modify this product in any way and never perform customized installations without manufacturer's approval. Unauthorized modifications will not only void the warranty, but may lead to your being liable for any resulting property damage or user injury.
2. Service work should be performed only after you are thoroughly familiar with all of the following safety checks and servicing guidelines. To do otherwise, increase the risk of potential hazards and injury to the user.
3. While servicing, use an isolation transformer for protection from A.C. line shock.

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**SPECIFICATIONS AND PARTS ARE SUBJECT TO CHANGE FOR IMPROVEMENT**

**DVD Home Theatre System**

# SAFETY NOTICE

## PRODUCT SAFETY SERVICING GUIDELINES FOR VIDEO PRODUCTS

CAUTION: DO NOT ATTEMPT TO MODIFY THIS PRODUCT IN ANY WAY AND NEVER PERFORM CUSTOMIZED INSTALLATIONS WITHOUT MANUFACTURER'S APPROVAL. UNAUTHORIZED MODIFICATIONS WILL NOT ONLY VOID THE WARRANTY, BUT MAY LEAD TO YOUR BEING LIABLE FOR ANY RESULTING PROPERTY DAMAGE OR USER INJURY.

SERVICE WORK SHOULD BE PERFORMED ONLY AFTER YOU ARE THOROUGHLY FAMILIAR WITH ALL OF THE FOLLOWING SAFETY CHECKS AND SERVICING GUIDELINES. TO DO OTHERWISE, INCREASES THE RISK OF POTENTIAL HAZARDS AND INJURY TO THE USER.

WHILE SERVICING, USE AN ISOLATION TRANSFORMER FOR PROTECTION FROM A.C. LINE SHOCK.

### SAFETY CHECKS

AFTER THE ORIGINAL SERVICE PROBLEM HAS BEEN CORRECTED, A CHECK SHOULD BE MADE OF THE FOLLOWING.

#### SUBJECT: FIRE & SHOCK HAZARD

1. BE SURE THAT ALL COMPONENTS ARE POSITIONED IN SUCH A WAY AS TO AVOID POSSIBILITY OF ADJACENT COMPONENT SHORTS. THIS IS ESPECIALLY IMPORTANT ON THOSE MODULES WHICH ARE TRANSPORTED TO AND FROM THE REPAIR SHOP.
2. NEVER RELEASE A REPAIR UNLESS ALL PROTECTIVE DEVICES SUCH AS INSULATORS, BARRIERS, COVERS, SHIELDS, STRAIN RELIEFS, POWER SUPPLY CORDS, AND OTHER HARDWARE HAVE BEEN REINSTALLED PER ORIGINAL DESIGN. BE SURE THAT THE SAFETY PURPOSE OF THE POLARIZED LINE PLUG HAS NOT BEEN DEFEATED.
3. SOLDERING MUST BE INSPECTED TO DISCOVER POSSIBLE COLD SOLDER JOINTS, SOLDER SPLASHES OR SHARP SOLDER POINTS. BE CERTAIN TO REMOVE ALL LOOSE FOREIGN PARTICLES.
4. CHECK FOR PHYSICAL EVIDENCE OF DAMAGE OR DETERIORATION TO PARTS AND COMPONENTS, FOR FRAYED LEADS AND DAMAGED INSULATION (INCLUDING A.C. CORD), AND REPLACE IF NECESSARY FOLLOW ORIGINAL LAYOUT, LEAD LENGTH AND DRESS.
5. NO LEAD OR COMPONENT SHOULD TOUCH A RECEIVING TUBE OR A RESISTOR RATED AT 1 WATT OR MORE. LEAD TENSION AROUND PROTRUDING METAL SURFACES MUST BE AVOIDED.
6. ALL CRITICAL COMPONENTS SUCH AS FUSES, FLAMEPROOF RESISTORS, CAPACITORS, ETC. MUST BE REPLACED WITH EXACT FACTORY TYPES, DO NOT USE REPLACEMENT COMPONENTS OTHER THAN THOSE SPECIFIED OR MAKE UNRECOMMENDED CIRCUIT MODIFICATIONS.
7. AFTER RE-ASSEMBLY OF THE SET, ALWAYS PERFORM AN A.C. LEAKAGE TEST ON ALL EXPOSED METALLIC PARTS OF THE CABINET, (THE CHANNEL SELECTOR KNOB, ANTENNA TERMINALS, HANDLE AND SCREWS) TO BE SURE THE SET IS SAFE TO OPERATE WITHOUT DANGER OF ELECTRICAL SHOCK. DO NOT USE A LINE ISOLATION TRANSFORMER DURING THIS TEST, MAKE SURE TO USE AN A.C. VOLTMETER. HAVING 5000 OHMS PER VOLT OR MORE SENSITIVITY, IN THE FOLLOWING MANNER; CONNECT A 1500 OHMS 10 WATT RESISTOR, PARALLELED BY A .15 MFD. 150V A.C. TYPE CAPACITOR BETWEEN A KNOWN GOOD EARTH GROUND (WATER PIPE, CONDUIT, ETC.) AND THE EXPOSED METALLIC PARTS, ONE AT A TIME. MEASURE THE A.C. VOLTAGE ACROSS THE COMBINATION OF 1500 OHM RESISTOR AND 15 MFD CAPACITOR. REVERSE THE A.C. PLUG AND REPEAT A.C. ANY VOLTAGE MEASUREMENTS FOR EACH EXPOSED METALLIC PART. VOLTAGE MEASURED MUST NOT EXCEED 75 VOLTS R.M.S. THIS CORRESPONDS TO 0.5 MILLIAMPS A.C. ANY VALUE EXCEEDING THIS LIMIT CONSTITUTES A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED IMMEDIATELY.

### SUBJECT GRAPHIC SYMBOLS



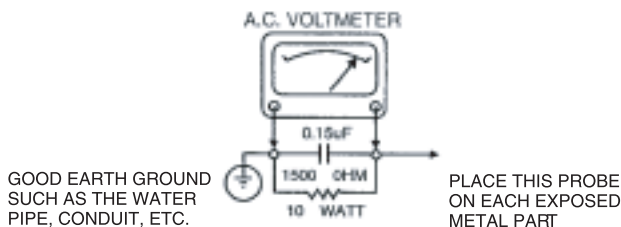
THE LIGHTNING FLASH WITH APROWHEAD SYMBOL, WITHIN AN EQUILATERAL TRIANGLE, IS INTENDED TO ALERT THE SERVICE PERSONNEL TO THE PRESENCE OF UNINSULATED "DANGEROUS VOLTAGE" THAT MAY BE OF SUFFICIENT MAGNITUDE TO CONSTITUTE A RISK OF ELECTRIC SHOCK.



THE EXCLAMATION POINT WITHIN AN EQUILATERAL TRIANGLE IS INTENDED TO ALERT THE SERVICE PERSONNEL TO THE PRESENCE OF IMPORTANT SAFETY INFORMATION IN SERVICE LITERATURE.

### SUBJECT: TIPS ON PROPER INSTALLATION

1. NEVER INSTALL ANY PRODUCT IN A CLOSED-IN RECESS, CUBBYHOLE OR CLOSELY FITTING SHELF SPACE, OVER OR CLOSE TO HEAT DUCT, OR IN THE PATH OF HEATED AIR FLOW.
2. AVOID CONDITIONS OF HIGH HUMIDITY SUCH AS: OUTDOOR PATIO INSTALLATIONS WHERE DEW IS A FACTOR, NEAR STEAM RADIATORS WHERE STEAM LEAKAGE IS A FACTOR, ETC.
3. AVOID PLACEMENT WHERE DRAPERIES MAY OBSTRUCT REAR VENTING. THE CUSTOMER SHOULD ALSO AVOID THE USE OF DECORATIVE SCARVES OR OTHER COVERINGS WHICH MIGHT OBSTRUCT VENTILATION.
4. CAUTION CUSTOMERS AGAINST THE MOUNTING OF A PRODUCT ON SLOPING SHELF OR A TILTED POSITION, UNLESS THE PRODUCT PROPERLY SECURED.
5. CAUTION CUSTOMERS AGAINST THE USE OF EXTENSION CORDS. EXPLAIN THAT A FOREST OF EXTENSIONS SPROUTING FROM A SINGLE OUTLET CAN LEAD TO DISASTROUS CONSEQUENCES TO HOME AND FAMILY.



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## SERVICING PRECAUTIONS

**CAUTION** : Before servicing the DVD covered by this service data and its supplements and ADDENDUMS, read and follow the SAFETY PRECAUTIONS NOTE : if unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions in this publications, always follow the safety precautions.

Remember Safety First:

### General Servicing Precautions

1. Always unplug the DVD AC power cord from the AC power source before:
  - (1) Removing or reinstalling any component, circuit board, module, or any other assembly.
  - (2) Disconnection or reconnecting any internal electrical plug or other electrical connection.
  - (3) Connecting a test substitute in parallel with an electrolytic capacitor  
Caution : A wrong part substitution or incorrect polarity installation of electrolytic capacitors may result in an explosion hazard.
2. Do not spray chemicals on or near this DVD or any of its assemblies.
3. Unless specified otherwise in this service data, clean electrical contacts by applying an appropriate contact cleaning solution to the contacts with a pipe cleaner, cotton-tipped swab, or comparable soft applicator.  
Unless specified otherwise in this service data, lubrication of contacts is not required.
4. Do not defeat any plug/socket B+ voltage interlocks with wotch instruments covered by this service manual might be equipped.
5. Do not apply AC power to this DVD and/or any of its electrical assemblies unless all solid-state device heat sinks are correctly installed.
6. Always connect test instrument ground lead to the appropriate ground before connection the test instrument positive lead. Always remove the test instrument ground lead last.

### Insulation Checking Procedure

Disconnect the attachment plug from the AC outlet and turn the power on. Connect an insulation resistance meter(500V) to the blades of the attachment plug. The insulation resistance between each blade of the attachment plug and accessible conductive parts (Note 1) should be more than 1M ohm.

Note 1 : Accessible Conductive Parts including Metal panels, input terminals, Earphone jacks, etc.

### Electrostatically Sensitive (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field effect transistors and semiconductor chip components.

The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a GROUNDED-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder removal device. Some solder removal devices not classified a "anti-static" can generate electrical charges sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charge sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil, or comparable conductive material.)
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

**Caution** : Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

8. Minimize bodily motions when handling unpackaged replacement ES devices. (Normally harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device.)

# PRODUCT SPECIFICATIONS

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## DVD Player

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- Pickup Semiconductor Laser, wavelength 650nm
- Signal System PAL/AUTO/NTSC
- Video Signal Horizontal Resolution 480 Lines (DVD)
- Video Signal-to-noise Ratio 50dB (DVD)
- Audio Frequency Response (at 2 CH Stereo Mode) DVD (PCM): 180Hz ~ 20kHz (+/-1.0dB)  
CD: 180Hz ~ 20kHz (+/-1.0dB)
- Audio Signal-to-noise Ratio 85dB
- Total harmonic Distortion 0.05%
- Dynamic Range DVD: 85dB; CD: 80dB

## FM Tuner

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- System PLL Quartz-locked Digital Synthesizer System
- Tuning Range 87.50 ~ 108.00MHz (50kHz Step)
- Antenna Terminal 75 ohms, Unbalanced
- Intermediate Frequency 10.7MHz

## Video Outputs

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- CVBS Video 1Vp-p 75 ohms
- S-Video Y: 1Vp-p 75 ohms  
C: PAL 0.3Vp-p 75 ohms / NTSC 0.286Vp-p 75 ohms
- Component Video Out Y: 1Vp-p 75 ohms  
Cb/Cr: NTSC 0.7Vp-p 75 ohms / PAL 0.698Vp-p 75 ohms
- Optical & Coaxial Out 1Vp-p 75 ohms

## Audio line Outputs

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- Audio L/R/SL/SR/C 2 Vrms, 1k ohms
- Subwoofer 1.2 Vrms Maximum (Adjustable), 1k ohms

## Audio Power Outputs

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- Stereo Mode 20W + 20W (8 ohms at 1kHz, THD 10%)
- Surround Mode Front: 20W + 20W (8 ohms at 1kHz, THD 10%)  
Center: 20W (8 ohms at 1kHz, THD 10%)  
Rear: 20W + 20W (8 ohms at 1kHz, THD 10%)

## General (Main Unit)

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- Power Requirements AC 100-240V, 50/60Hz
- Power Consumption (Max) 170w
- Dimensions (W x H x D) 430 x 68 x 280mm
- Weight 3.2kg

## Speakers

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- Subwoofer Power: 40W  
Speaker System: Base Reflex  
Speaker Unit: 6.5 inches  
Rated Impedance: 4 ohms  
Dimensions (W x H x D): 200 x 320 x 345mm  
Weight: 5.37kg
- Front/Center/Rear Speakers Power: 20W  
Speaker System: Base Reflex  
Speaker Unit: 3 inches  
Rated Impedance: 8 ohms  
Dimensions (W x H x D): 90 x 140 x 105mm  
Weight: 1.38kg

## General (Main Unit)

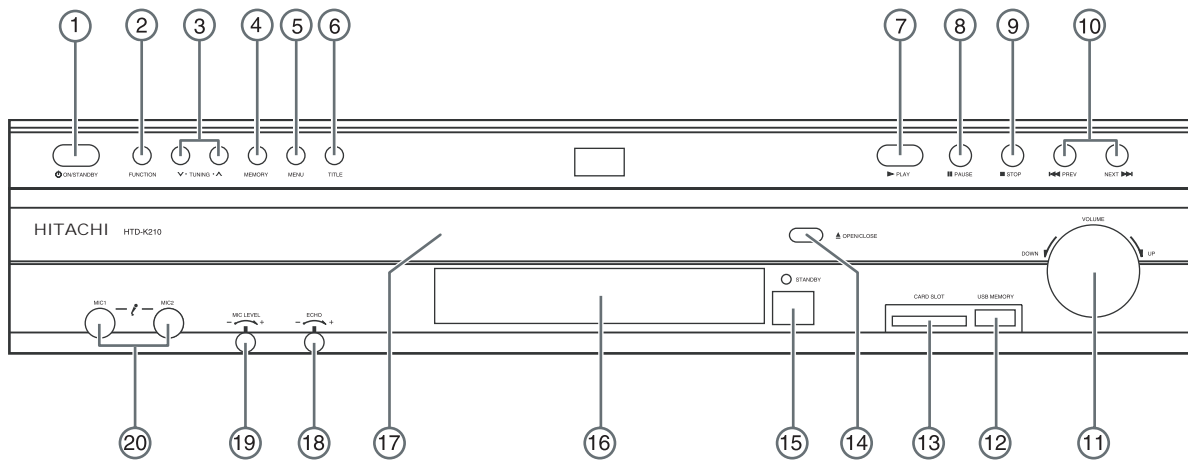
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- Microphone Microphone Jacks
- USB USB Port
- SD/MMC/MS SD/MMC/MS Card Slot



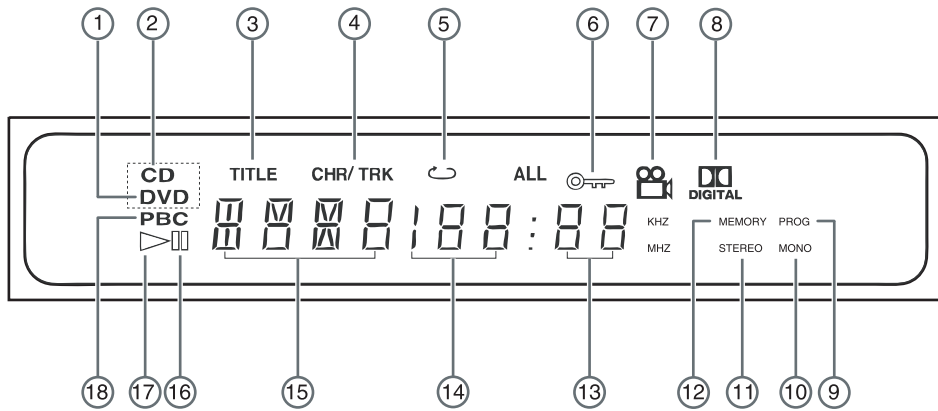
# FUNCTIONAL OVERVIEW

## Front Panel



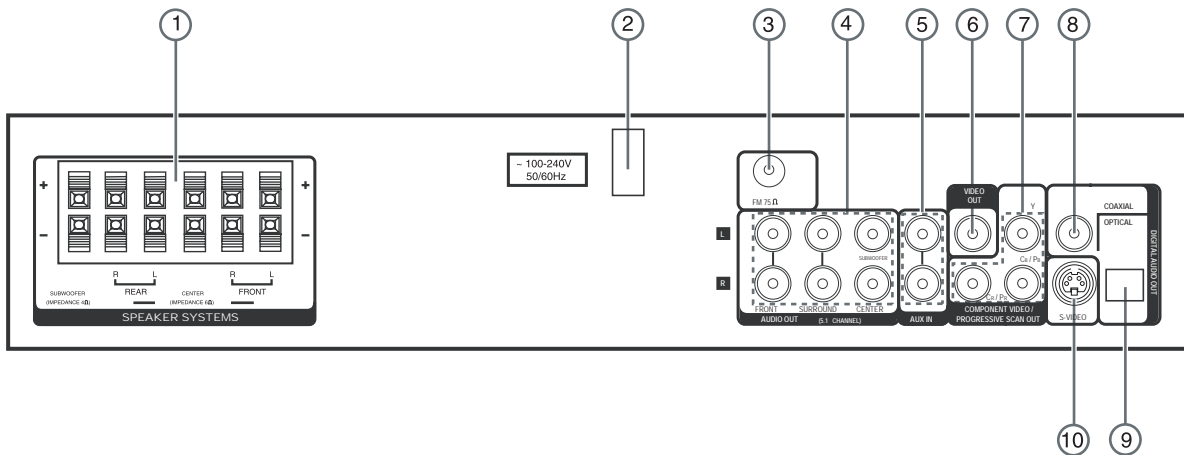
- 1. POWER (⏻ ON/STANDBY)**  
Press to turn the unit on or standby.
- 2. FUNCTION**  
Press to select DVD, TUNER or AUX mode.
- 3. TUNING UP/DOWN (∇/∧)**  
Press to search for the radio stations.
- 4. MEMORY**  
Press to store the desired radio stations.
- 5. MENU**  
Press to display the root menu while playing a DVD disc.
- 6. TITLE**  
Press to display the title menu while playing a DVD disc.
- 7. PLAY (▶)**  
Press to confirm and execute the selection or to start a playback.
- 8. PAUSE (⏸)**  
Press to pause a playback.
- 9. STOP (■)**  
Press to stop a playback.
- 10. PREV/NEXT (◀◀/▶▶)**  
Press to return to the previous or skip to the next title/chapter/track.
- 11. VOLUME UP/DOWN**  
Turn to increase (UP) or decrease (DOWN) the volume level.
- 12. USB MEMORY**  
Insert the USB Flash Memory or USB memory Card Reader to this port.
- 13. CARD SLOT**  
Insert the SD, MMC or MS card to this slot.
- 14. OPEN/CLOSE (▲)**  
Press to open or close the disc tray.
- 15. REMOTE SENSOR**  
Receive signal from the remote control.
- 16. FRONT PANEL DISPLAY**
- 17. DISC TRAY**
- 18. ECHO**  
Turn to increase (+) or decrease (-) the microphone echo level.
- 19. MIC LEVEL**  
Turn to increase (+) or decrease (-) the microphone volume level.
- 20. MICROPHONE JACKS**  
Connect the microphones to these jacks.

## Front Panel Display



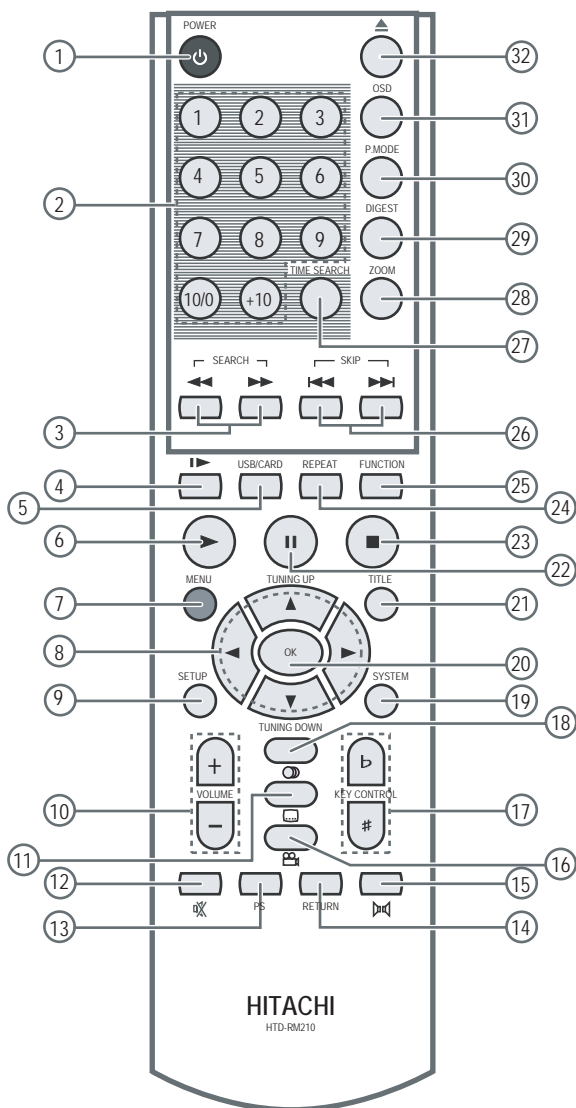
- |                            |                            |                                   |
|----------------------------|----------------------------|-----------------------------------|
| 1. DVD Indicator           | 7. ANGLE Indicator         | 13. SECOND Indicator              |
| 2. CD Indicator            | 8. DOLBY DIGITAL Indicator | 14. MINUTE Indicator              |
| 3. TITLE Indicator         | 9. PROGRAM Indicator       | 15. TITLE/CHAPTER/TRACK Indicator |
| 4. CHAPTER/TRACK Indicator | 10. MONO Indicator         | 16. PAUSE Indicator               |
| 5. REPEAT PLAY Indicator   | 11. STEREO Indicator       | 17. PLAY Indicator                |
| 6. LOCK Indicator          | 12. MEMORY Indicator       | 18. PLAYBACK CONTROL Indicator    |

## Rear Panel



- |  |  |
|--|--|
| 1. 5.1 CHANNEL SPEAKER OUT                                 | 6. VIDEO OUT                                       |
| Connect to the supplied speakers.                          | Connect to a TV's Video input terminal.            |
| 2. POWER SUPPLY CORD                                       | 7. COMPONENT VIDEO/PROGRESSIVE SCAN OUT            |
| Connect to a wall outlet.                                  | Connect to a TV's Component Video input terminals. |
| 3. FM ANTENNA JACK   | 8. COAXIAL OUT                                     |
| Connect to the supplied FM antenna.                        | Connect to an optional receiver.                   |
| 4. 5.1 CHANNEL AUDIO OUT                                   | 9. OPTICAL OUT                                     |
| Connect to an external amplifier or other optional source. | Connect to an optional receiver.                   |
| 5. AUX IN  | 10. S-VIDEO OUT                                    |
| Connect to a TV set and VCR, or other optional source.     | Connect to a TV's S-Video input terminal.          |

## Remote Control



1. **POWER (⏻)**  
Press to turn the unit on or standby.
2. **NUMBER BUTTONS**
3. **FAST FORWARD/FAST BACKWARD (SEARCH) (⏮/⏭)**  
Press to play a disc in fast forward/backward mode.
4. **SLOW-MOTION PLAY (⏪)**  
Press to play a disc in slow-motion.
5. **USB/CARD**  
Press to select input source (DVD, USB or CARD).
6. **PLAY (▶)**  
Press to confirm and execute the selection or to start a playback.
7. **MENU**  
Press to display the root menu while playing a DVD disc.
8. **LEFT/UP/DOWN/RIGHT (◀▲▼▶)**  
Press to select and move the screen cursor to a desired option.
9. **SETUP**  
Press to display or exit the SETUP menu.
10. **VOLUME +/-**  
Press to increase (+) or decrease (-) the volume level.
11. **SUBTITLE (🗉)**  
Press to select a desired subtitle language while playing a DVD disc.
12. **MUTE (🔇)**  
Press to mute or restore the volume.
13. **PS (PROGRESSIVE SCAN)**  
Press to select Progressive Scan or Interlace output mode.
14. **RETURN** (Not applicable to this unit)
15. **AUDIO MODE (🔊)**  
Press to select a desired audio channel output.
16. **ANGLE (📷)**  
Press to select a desired camera angle (if available) while playing a DVD disc.
17. **KEY CONTROL (♭, #)**  
Press to lower (♭) or higher (#) your pitch at karaoke mode.
18. **AUDIO LANGUAGE (🗣)**  
Press to select a desired audio language while playing a DVD disc.
19. **SYSTEM**  
Press to set the color system of the unit.
20. **OK**  
Press to confirm and execute the selection.
21. **TITLE**  
Press to display the titlmenu while playing a DVD disc.
22. **PAUSE (⏸)**  
Press to pause a playback.
23. **STOP (■)**  
Press to stop a playback.
24. **REPEAT**  
Press to repeat a disc/title/chapter/track playback.
25. **FUNCTION**  
Press to select DVD, TUNER or AUX mode.
26. **PREVIOUS/NEXT (⏮/⏭)**  
Press to return to the previous or skip to the next title/chapter/track.
27. **TIME SEARCH**  
Press to search and play the desired title/chapter or desired point by specifying the time.
28. **ZOOM**  
Press to enlarge or reduce the pictures while playing a disc.
29. **DIGEST**  
press to view the contents of the disc or track all at once.
30. **P.MODE (PLAY MODE)**  
Press to set a program play or to play the disc in random or shuffle order.
31. **OSD**  
Press to display or exit the DISPLAY menu.
32. **OPEN/CLOSE (🔼)**  
Press to open or close the disc tray.

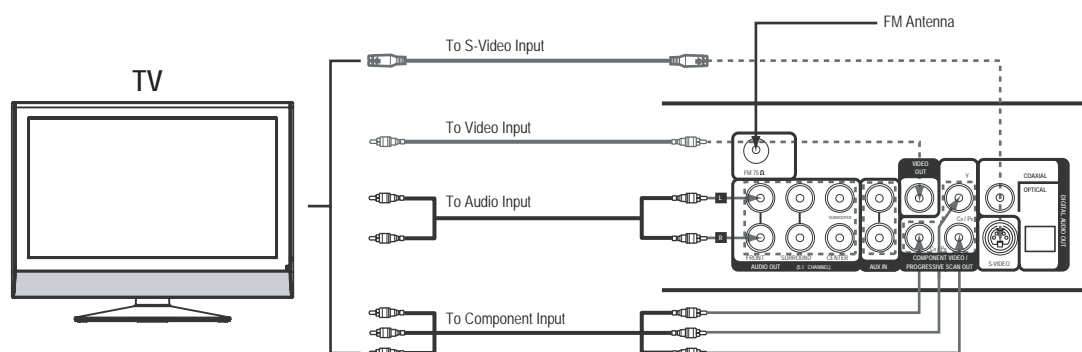
# CONNECTIONS

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Switch off all power supplies to the equipments before connection.

The unit has many kinds of output modes like AV output, S-Video output, Component Video/Progressive Scan output and digital signal output (Optical and Coaxial).

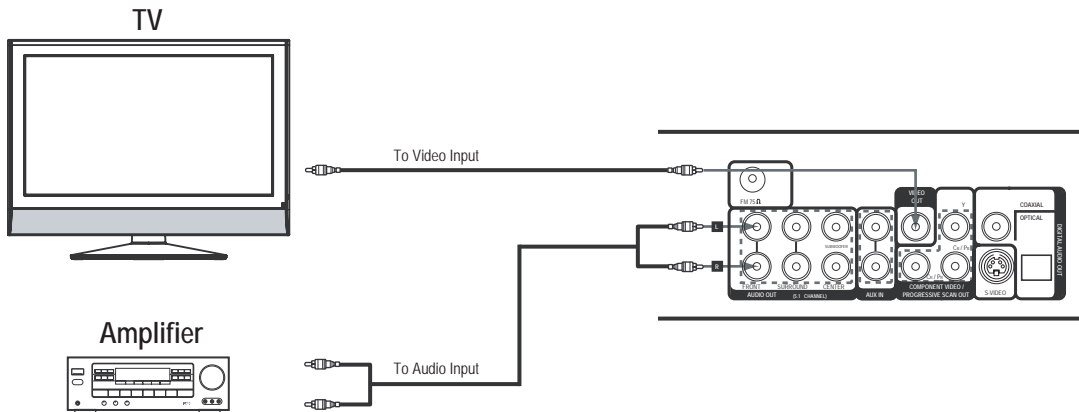
## Connecting to a TV



### NOTE:

- If the TV has component Video input terminals, connect the unit to these terminals. You can enjoy high quality picture playback.
- Turn on the TV and set the correct video-in channel.

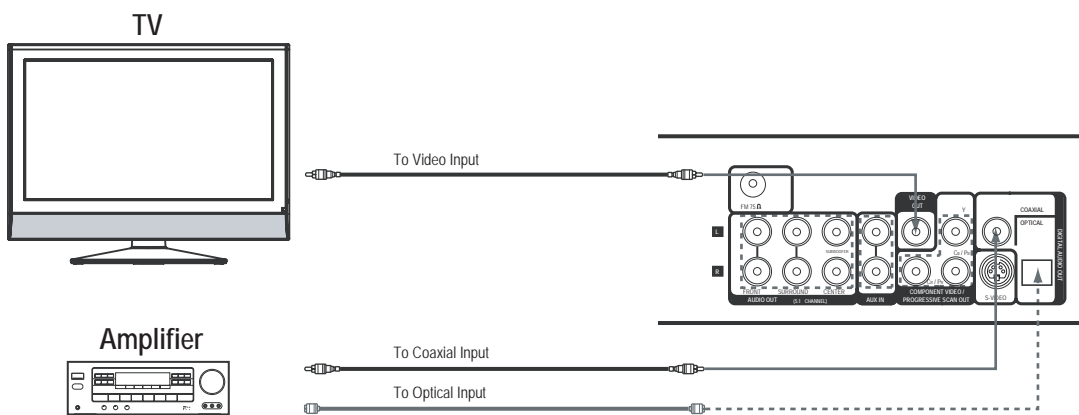
## Connecting to an Amplifier



### NOTE:

- There will be no sound output from the output terminal when a Digital Theater System (DTS) disc is played.

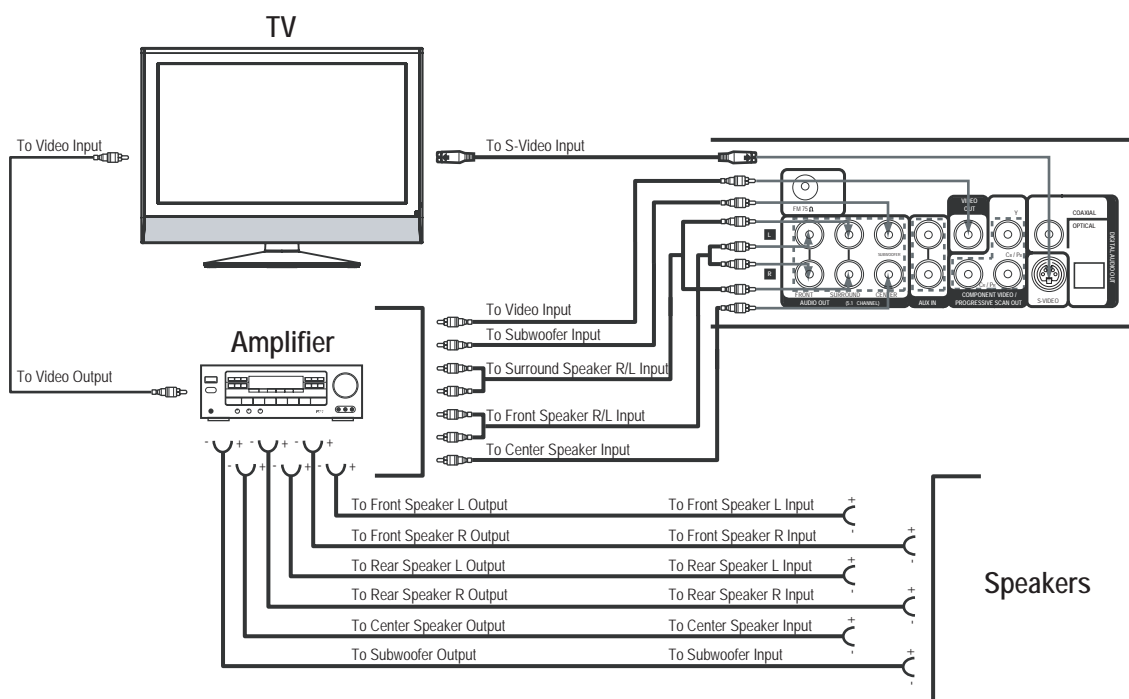
## Connecting to an Amplifier with Digital Signal Input



### NOTE:

- If you have DTS decoder or processor, you can enjoy DVD disc or CD sound decoded by 5.1 channel DTS.

## Connecting to an Amplifier with 5.1 channel Surround Sound



Some discs with Dolby or MPEG AUDIO recorded 5.1 channel track. When connecting an amplifier with 5.1 channel input terminal and 5(+1) speaker, you can enjoy more realized sound effect at home. "5 channel" means 2 front speakers (L/R), 2 rear speakers (L/R) and a center speaker. 0.1 means subwoofer speaker output.

### NOTE:

- A DVD disc with MPEG AUDIO format recorded 7.1 channel soundtrack, the output signal will be incorporated into 5.1 channel.

To obtain perfect surround sound, the followings are recommended:

Use high quality speakers.

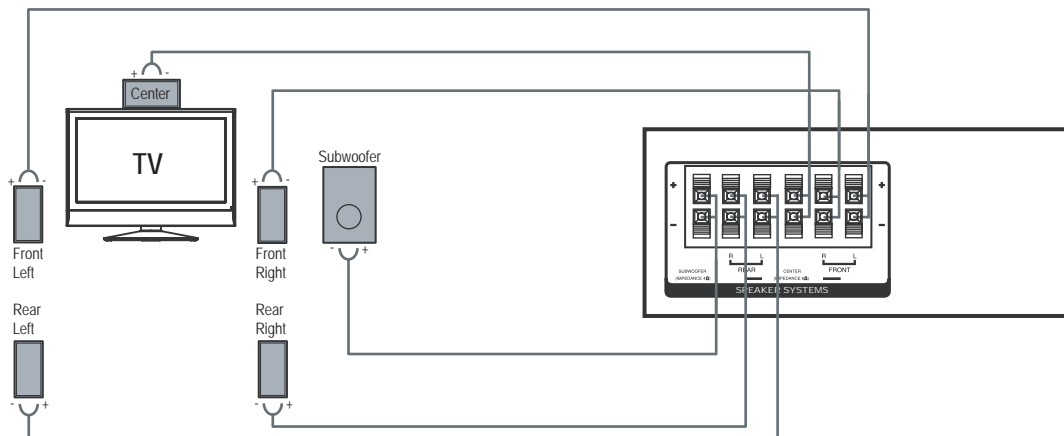
Use rear and center speakers to match with front speakers (in size and performance).

If possible, set the subwoofer speaker between two front speakers (L/R).

### NOTE:

- Distance between center speaker and listening location, and distance between rear speakers and listening location should be shorter than the distance between front speakers and listening location.
- Do not connect the power cord to the wall outlet or press **POWER** button to turn on the unit before all connections have been made.

## Connecting to Speakers



### Connecting to Speaker Terminals

1. Push the lever.



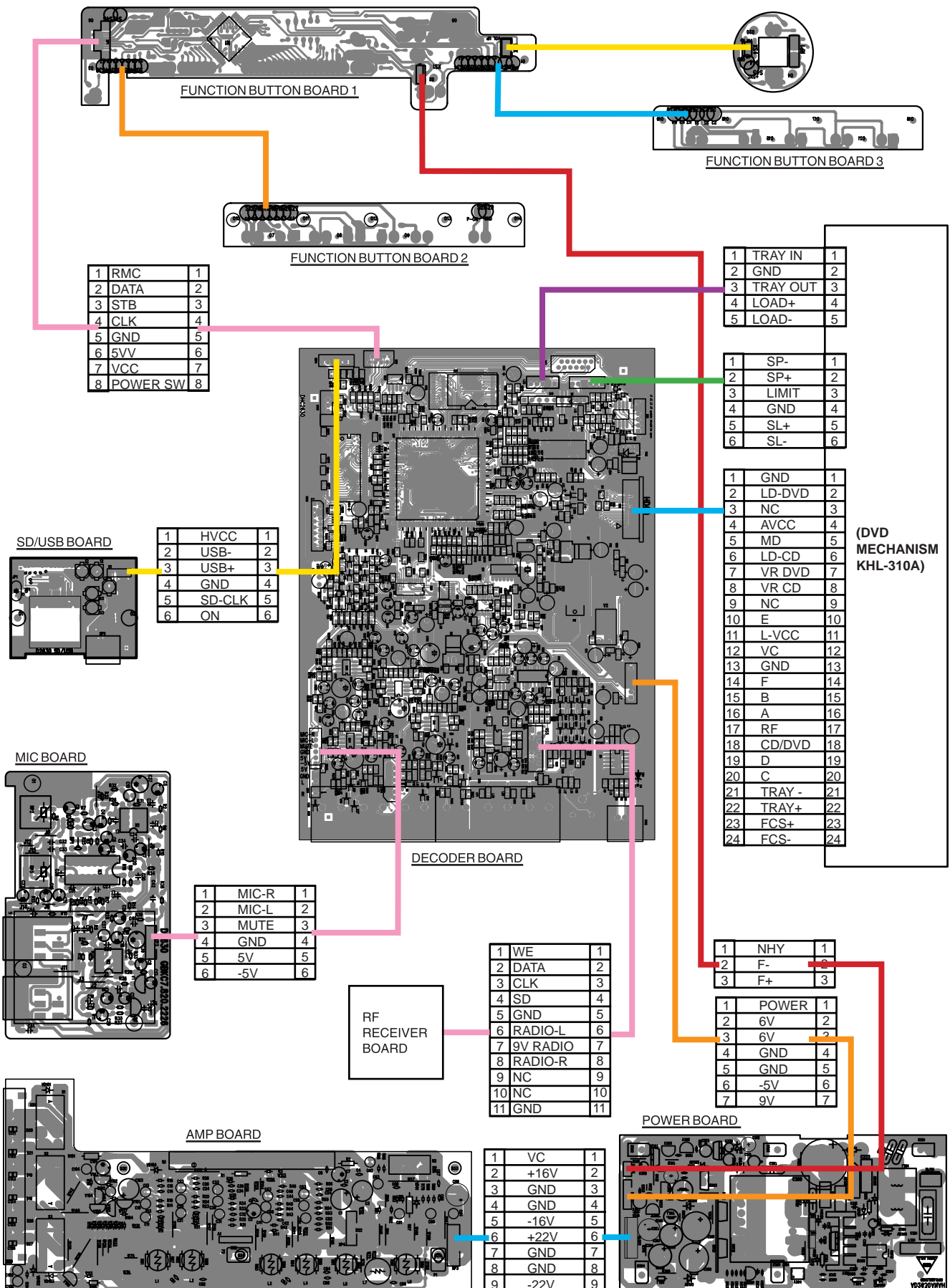
2. Insert the cord.



3. Return the lever.



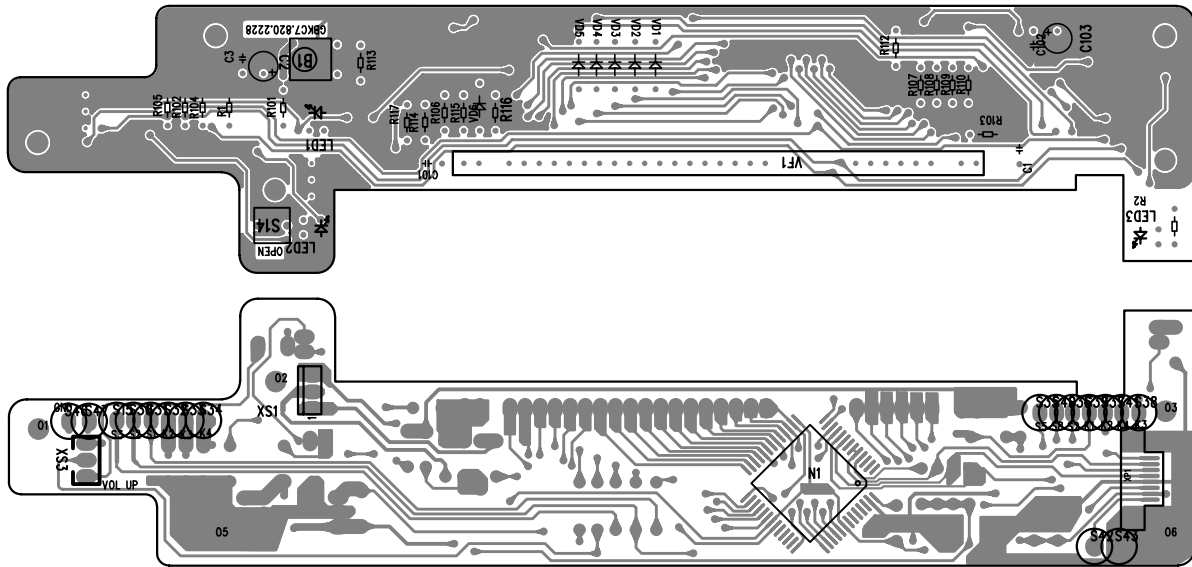
# WIRING DIAGRAM



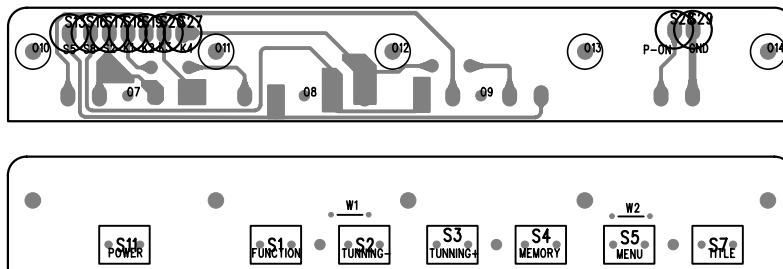


# PCB DIAGRAMS

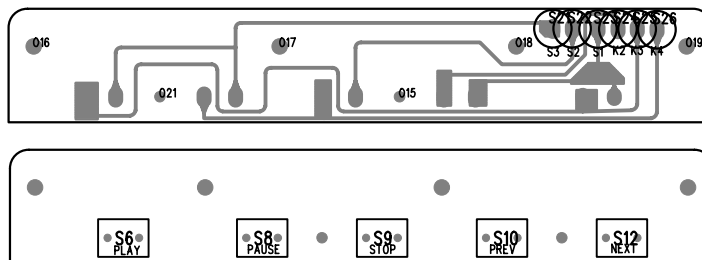
## FUNCTION BUTTON BOARD DIAGRAM 1



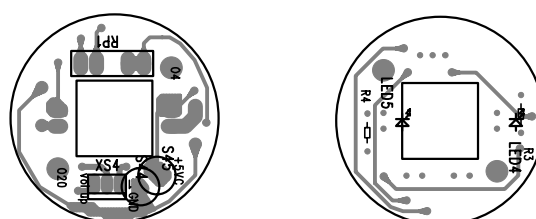
## FUNCTION BUTTON BOARD DIAGRAM 2



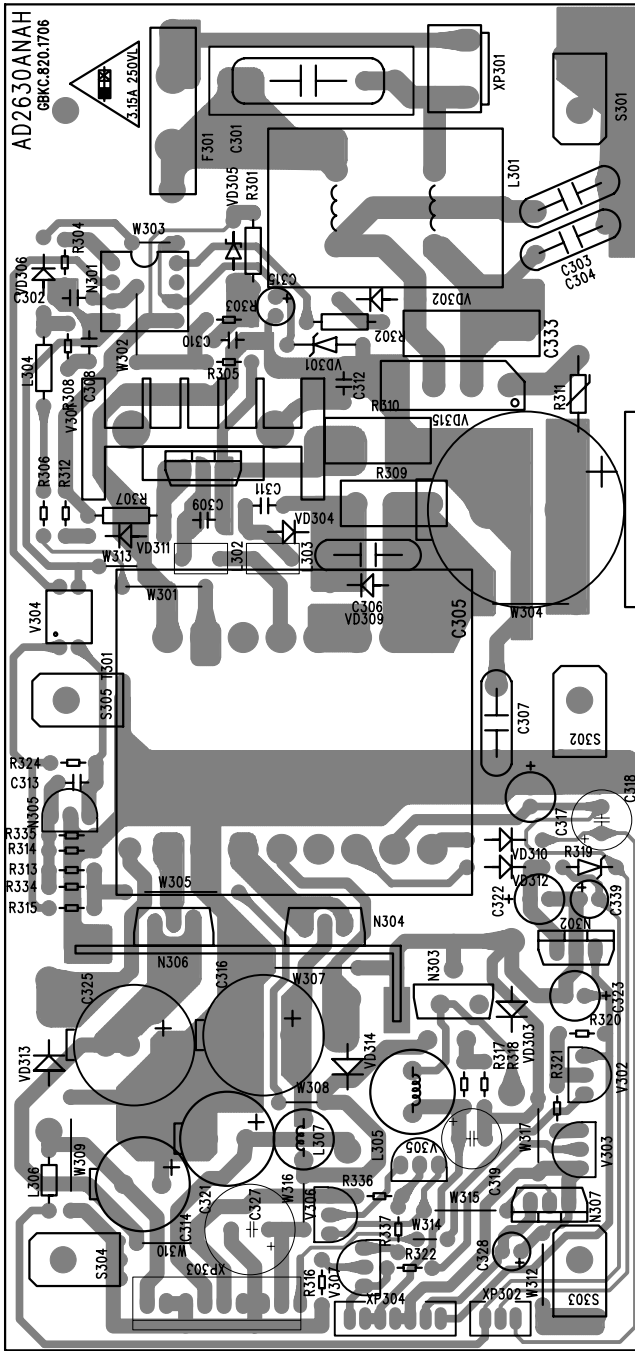
## FUNCTION BUTTON BOARD DIAGRAM 3



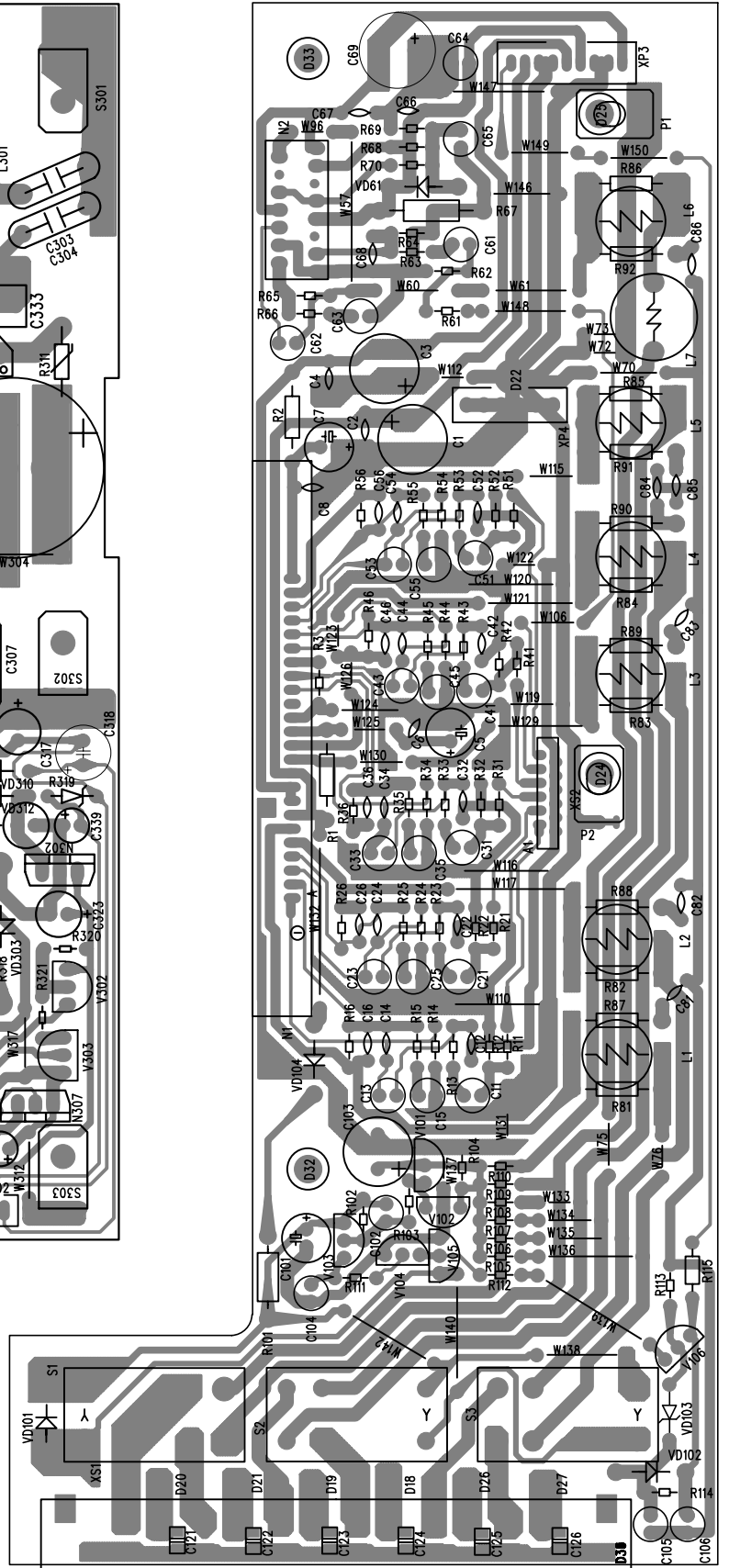
## FUNCTION BUTTON BOARD DIAGRAM 4



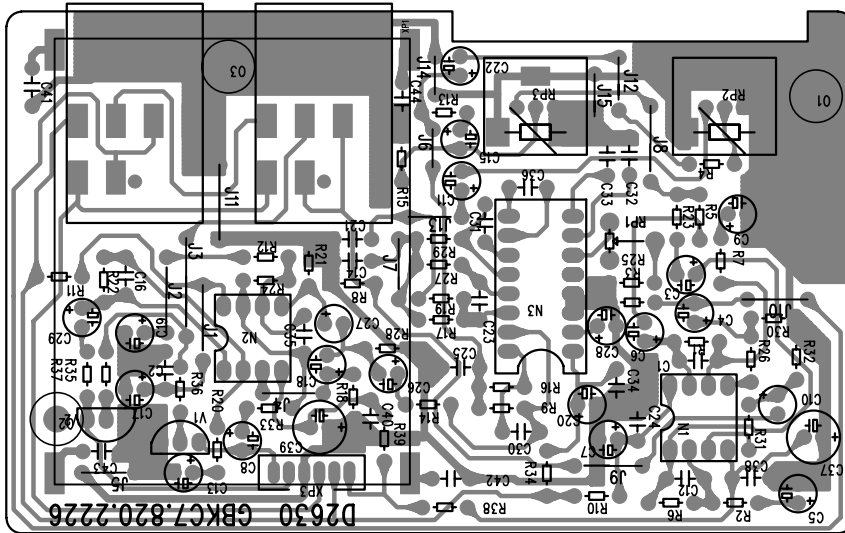
# POWER BOARD DIAGRAM



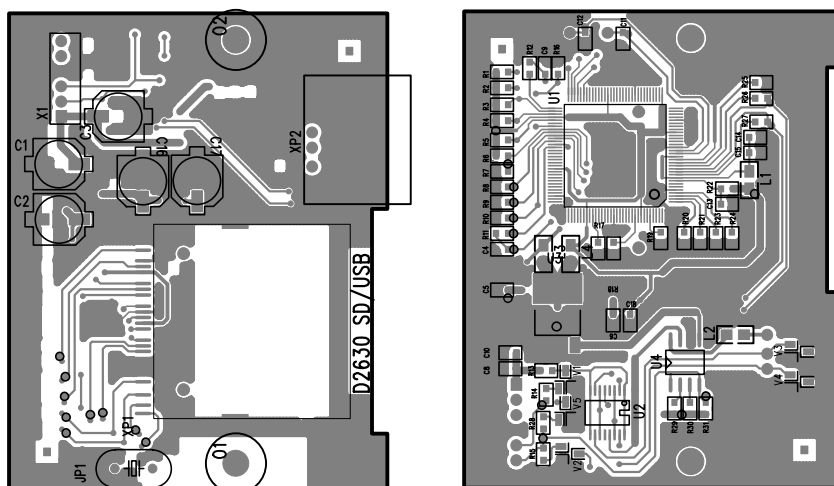
# AMP BOARD DIAGRAM



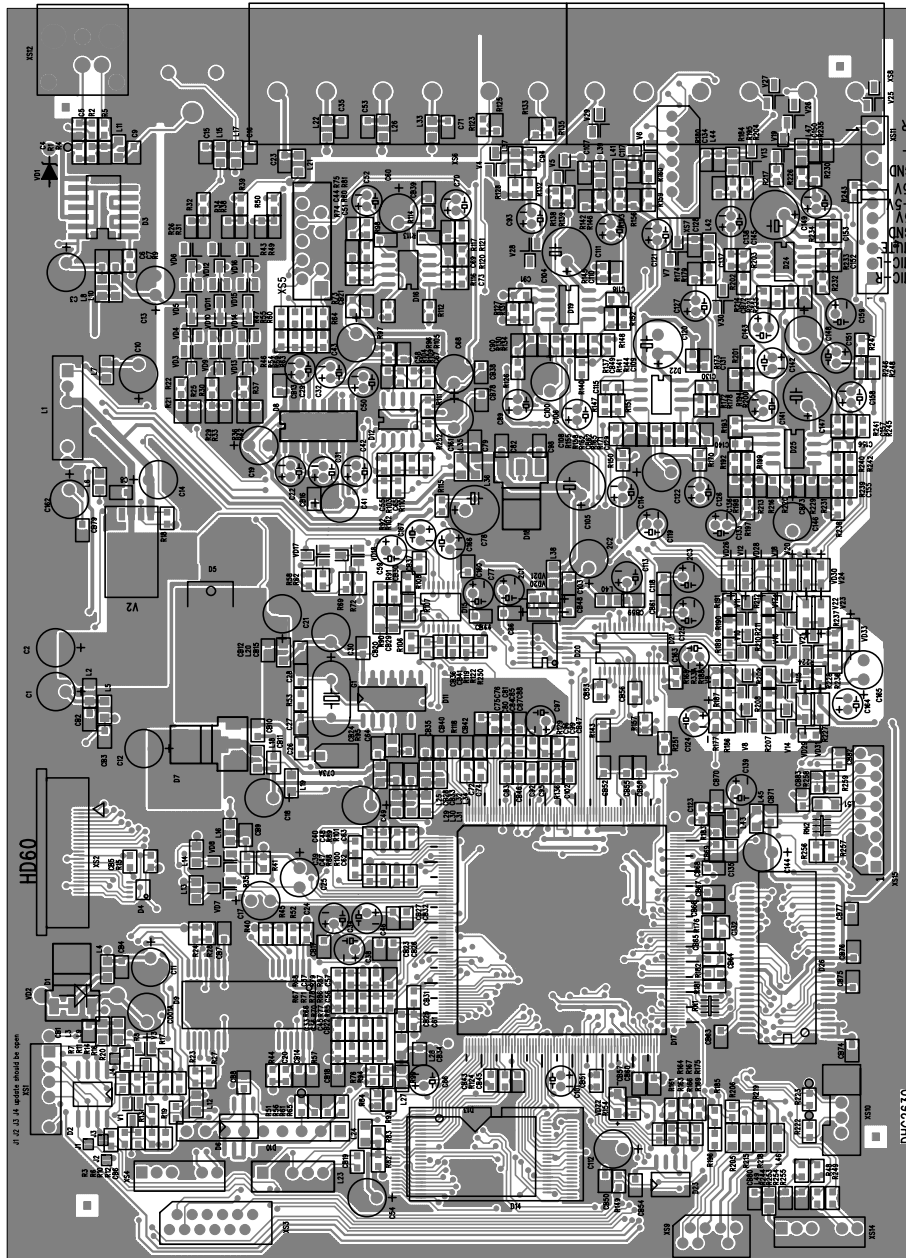
# MIC BOARD DIAGRAM



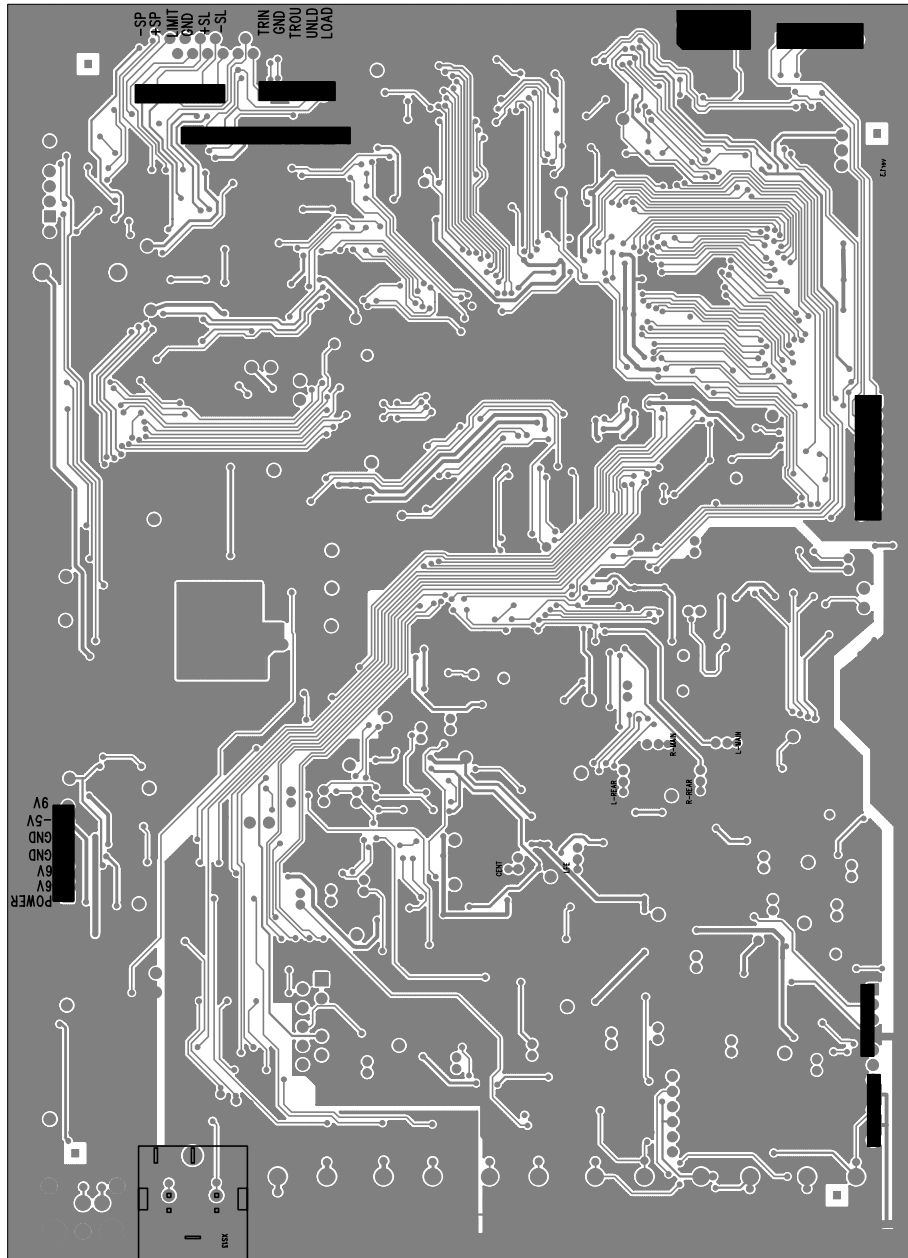
# 2630 USB BOARD DIAGRAM



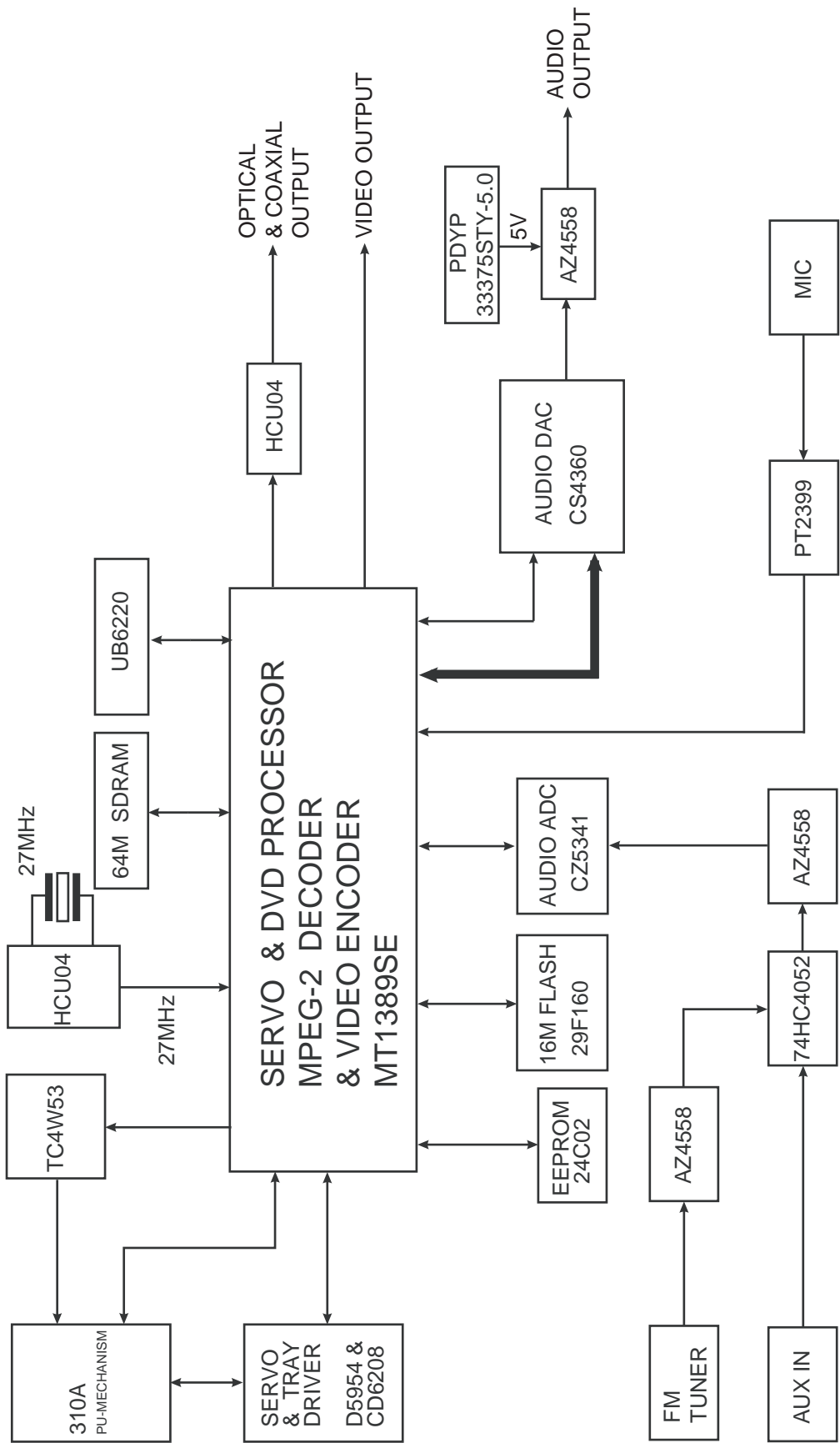
# DECODER BOARD DIAGRAM (TOP)



# DECODERBOARD DIAGRAM (BOTTOM)

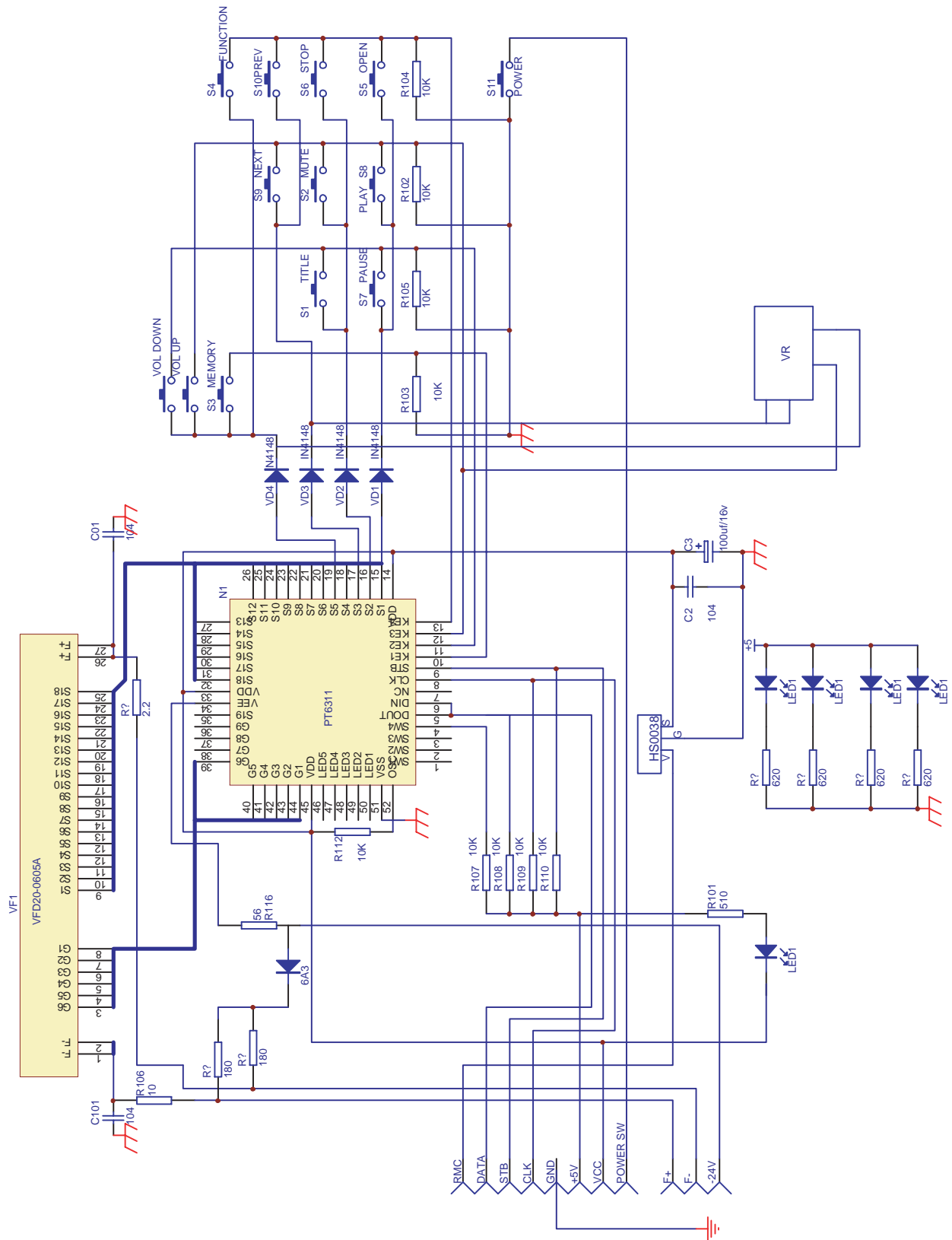


# BLOCK DIAGRAM

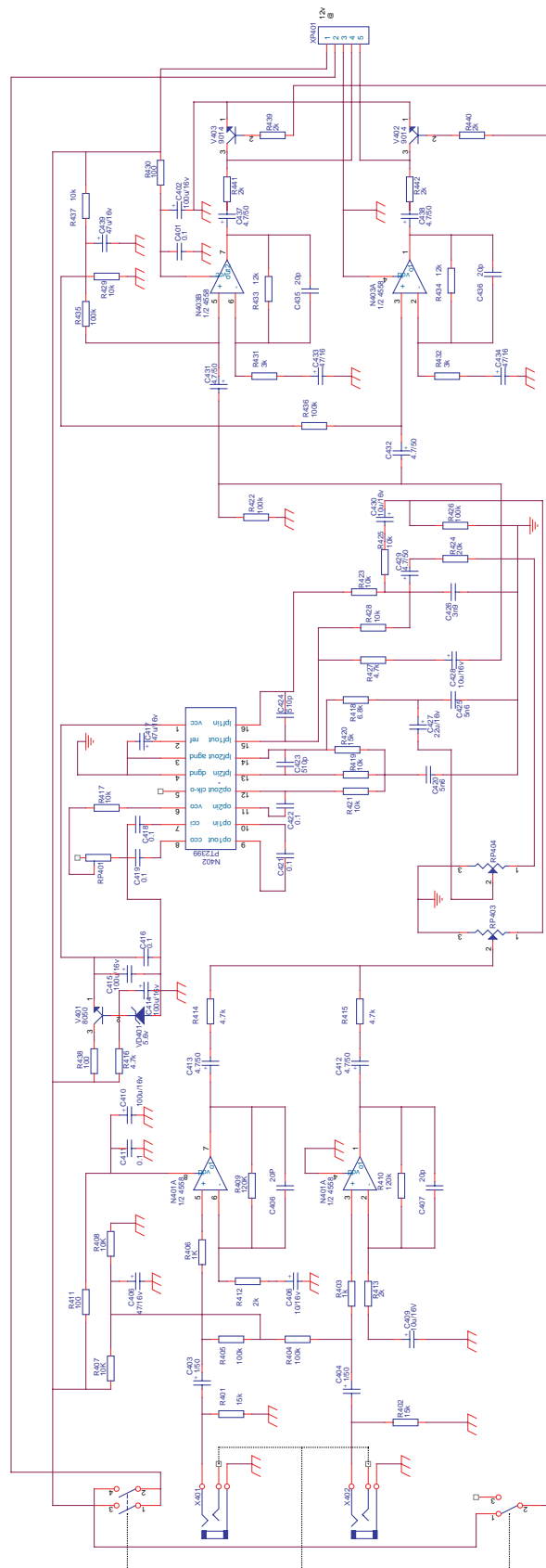


# SCHEMATIC DIAGRAMS

## FUNCTION BUTTON CIRCUIT DIAGRAM

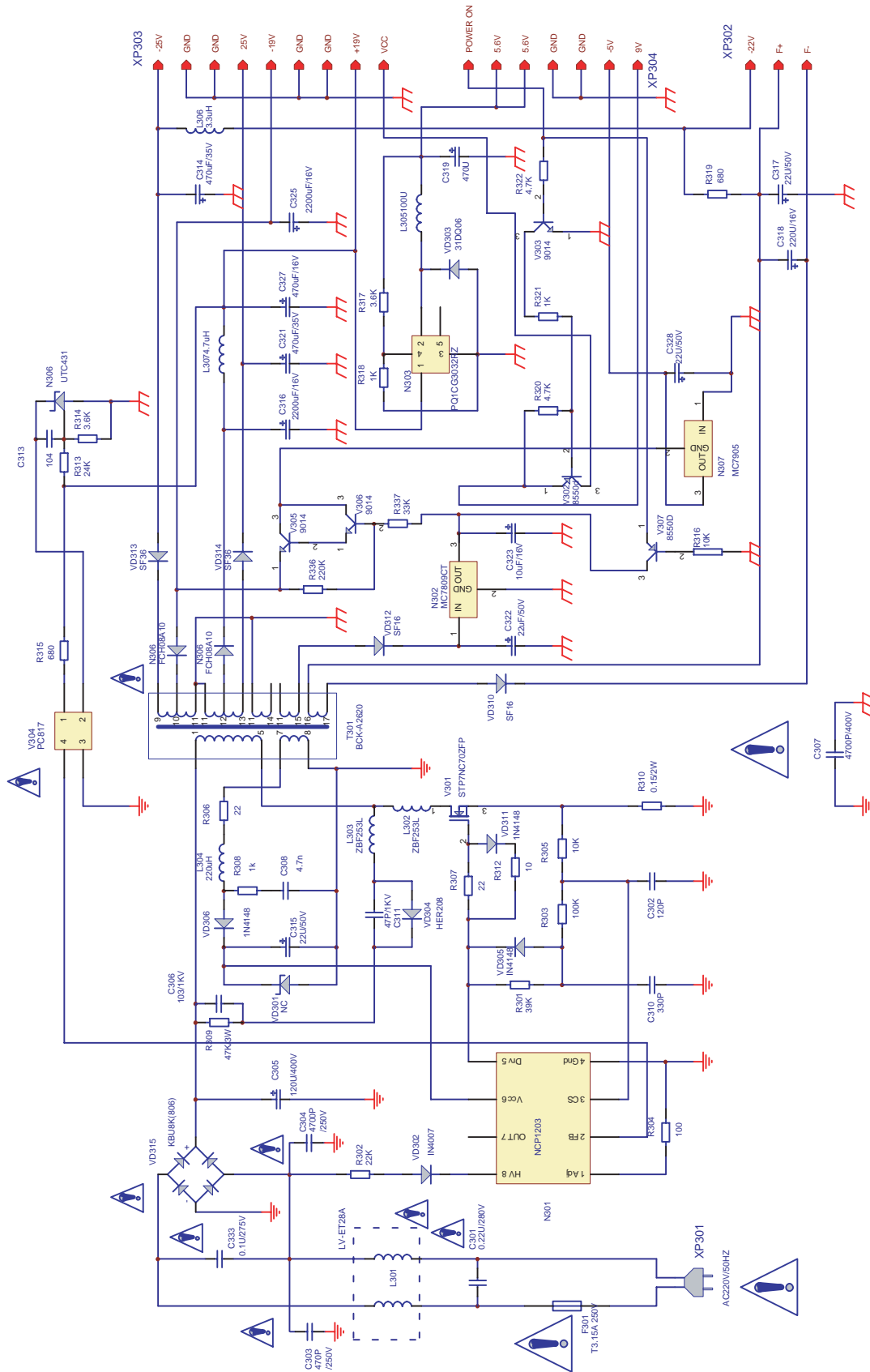


# MIC CIRCUIT DIAGRAM

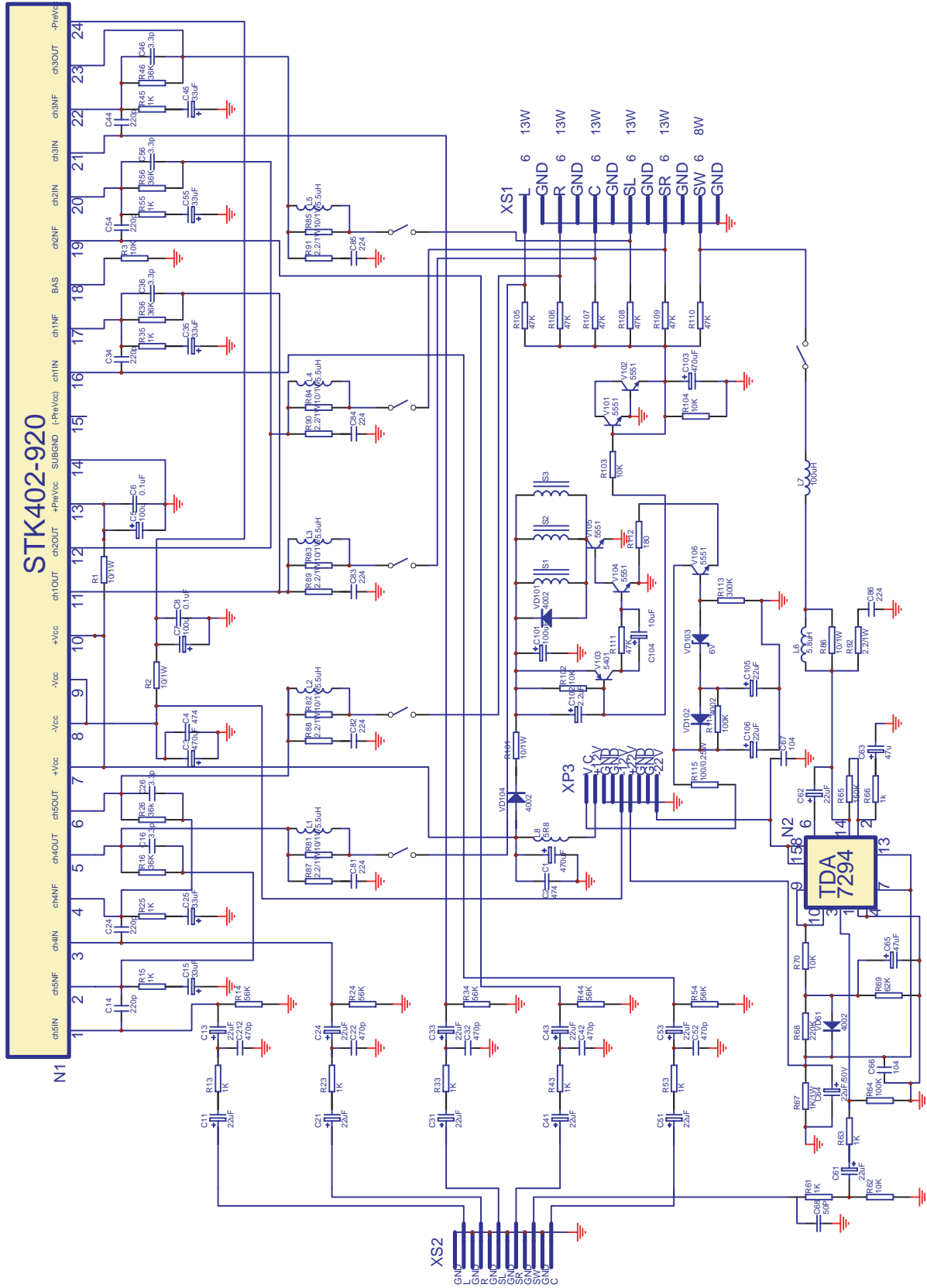




# POWER CIRCUIT DIAGRAM

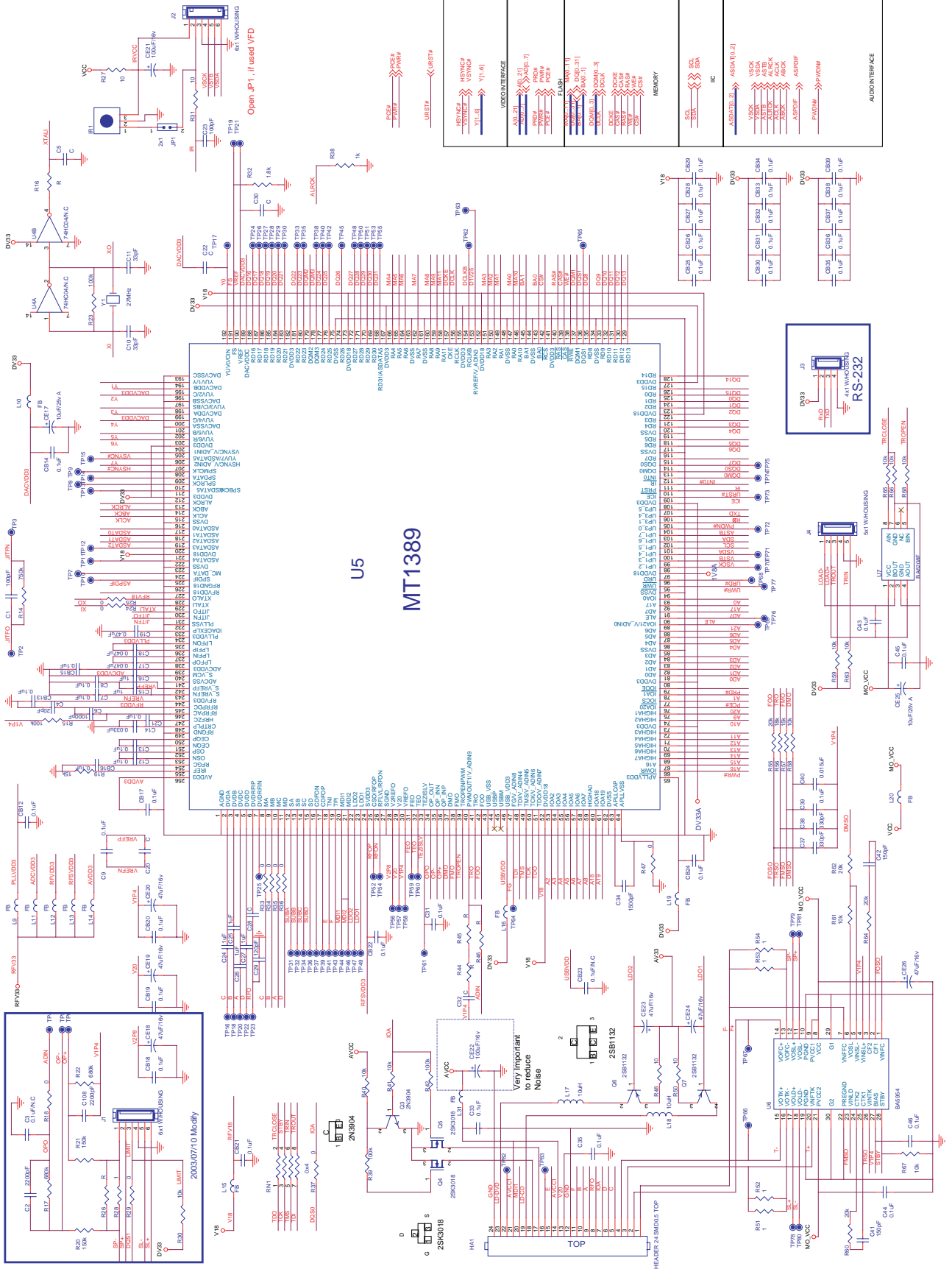


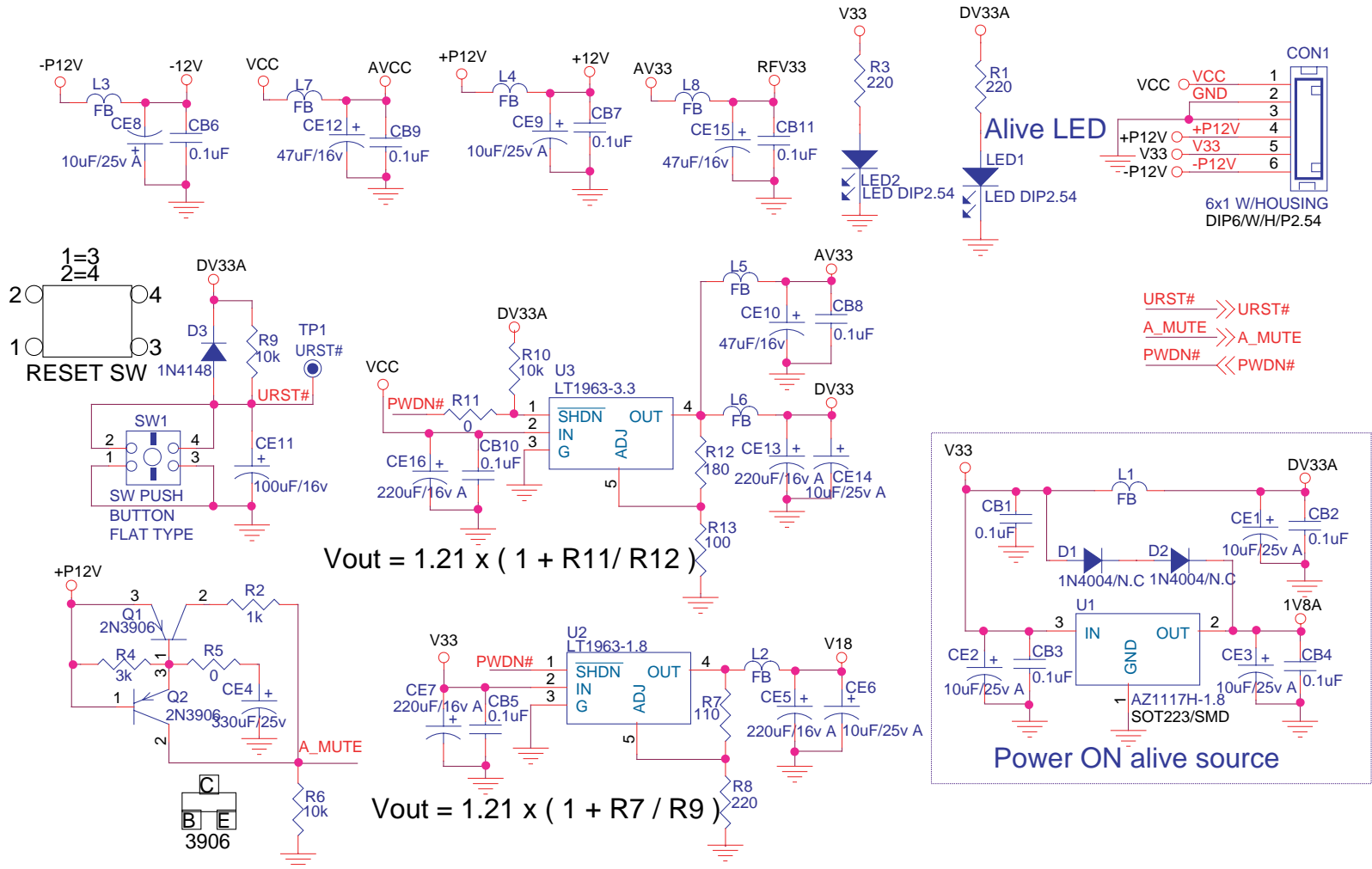
# AMP CIRCUIT DIAGRAM





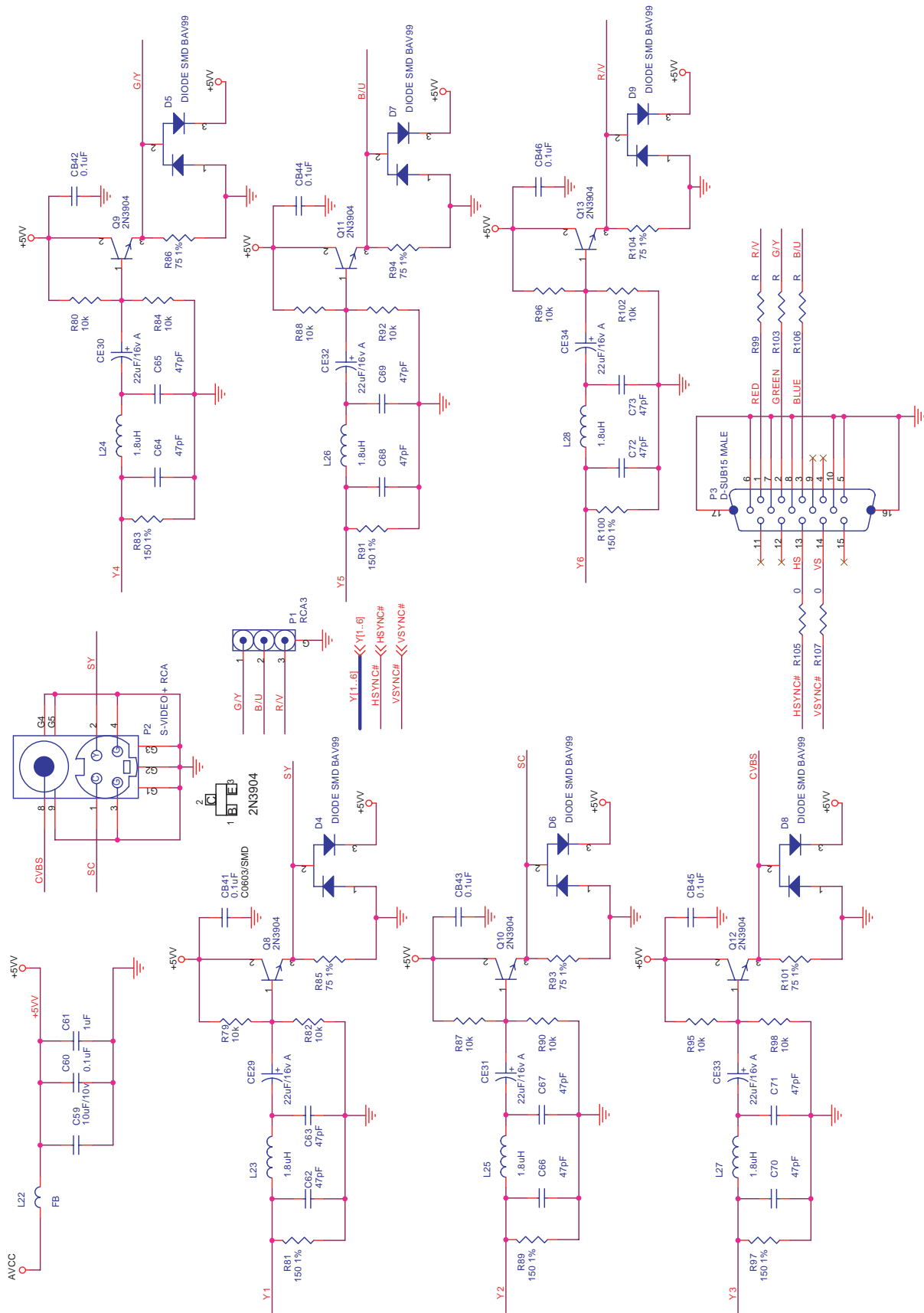
# DECODER PCB CIRCUIT DIAGRAM 1



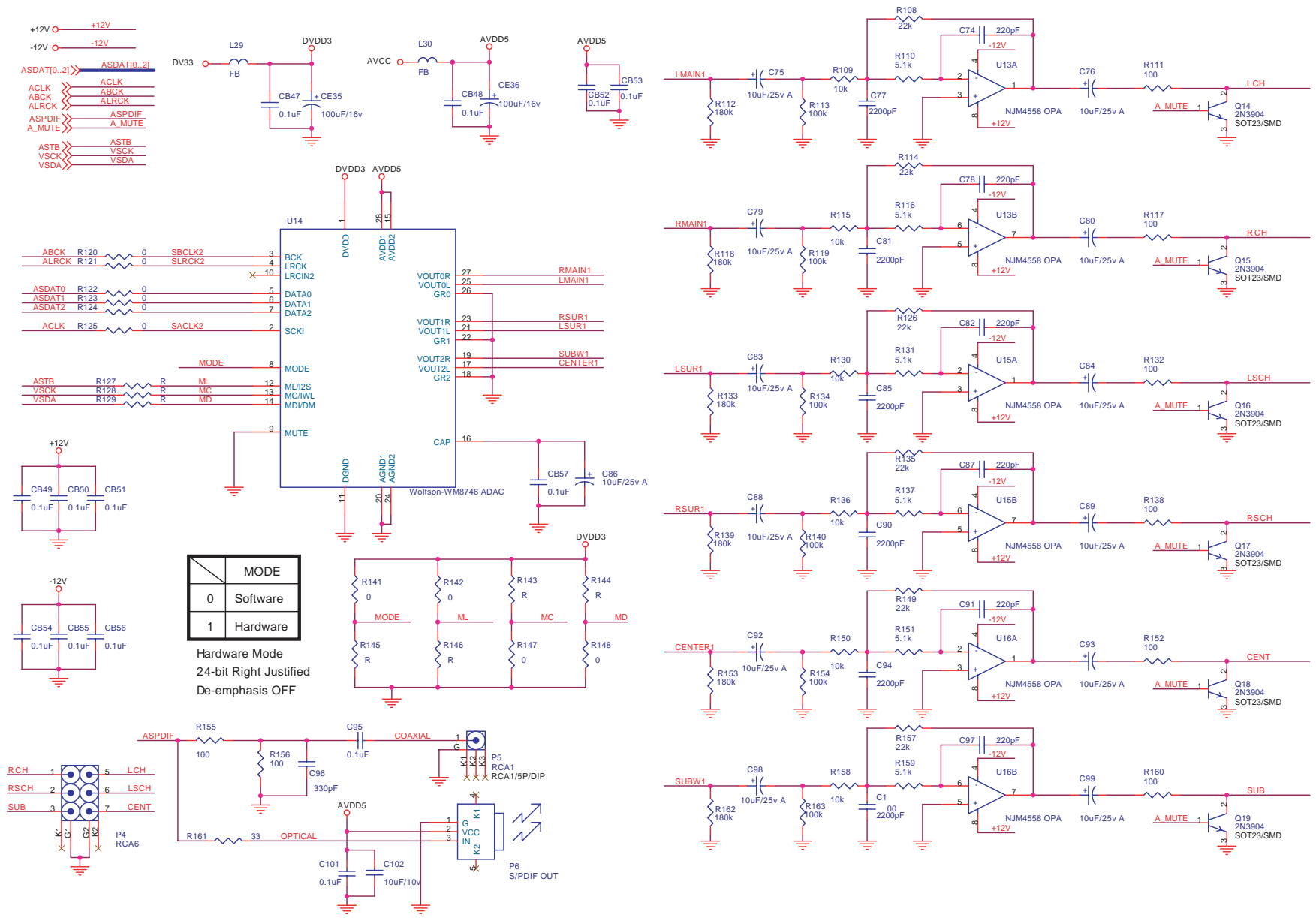


DECODER PCB CIRCUIT DIAGRAM 2

# DECODER PCB CIRCUIT DIAGRAM 3



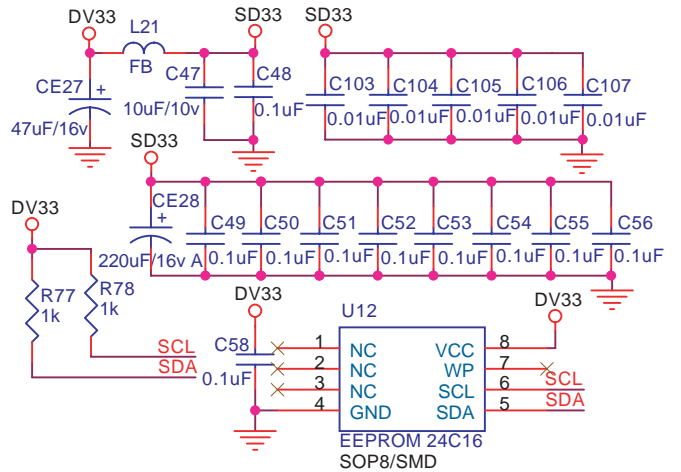
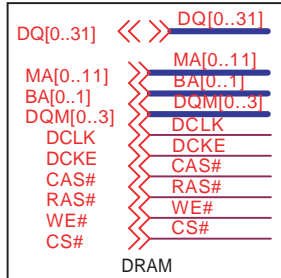
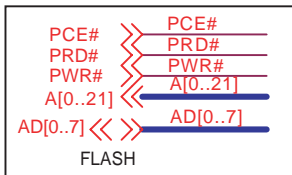
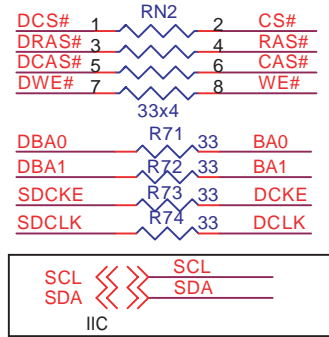
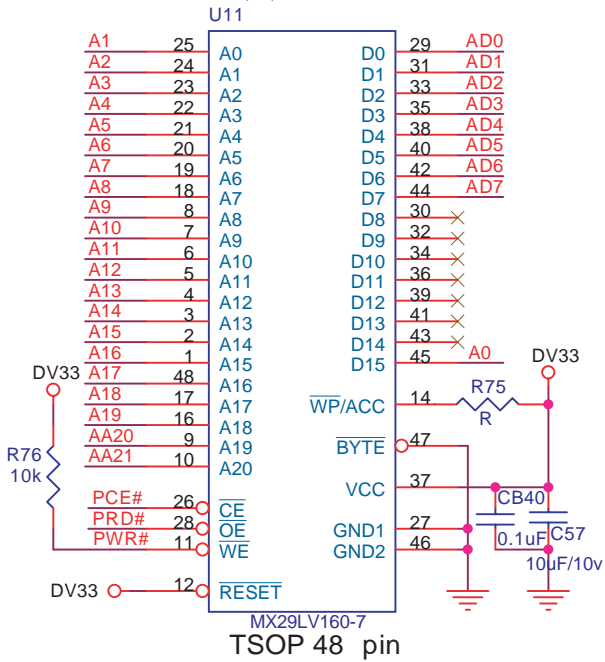
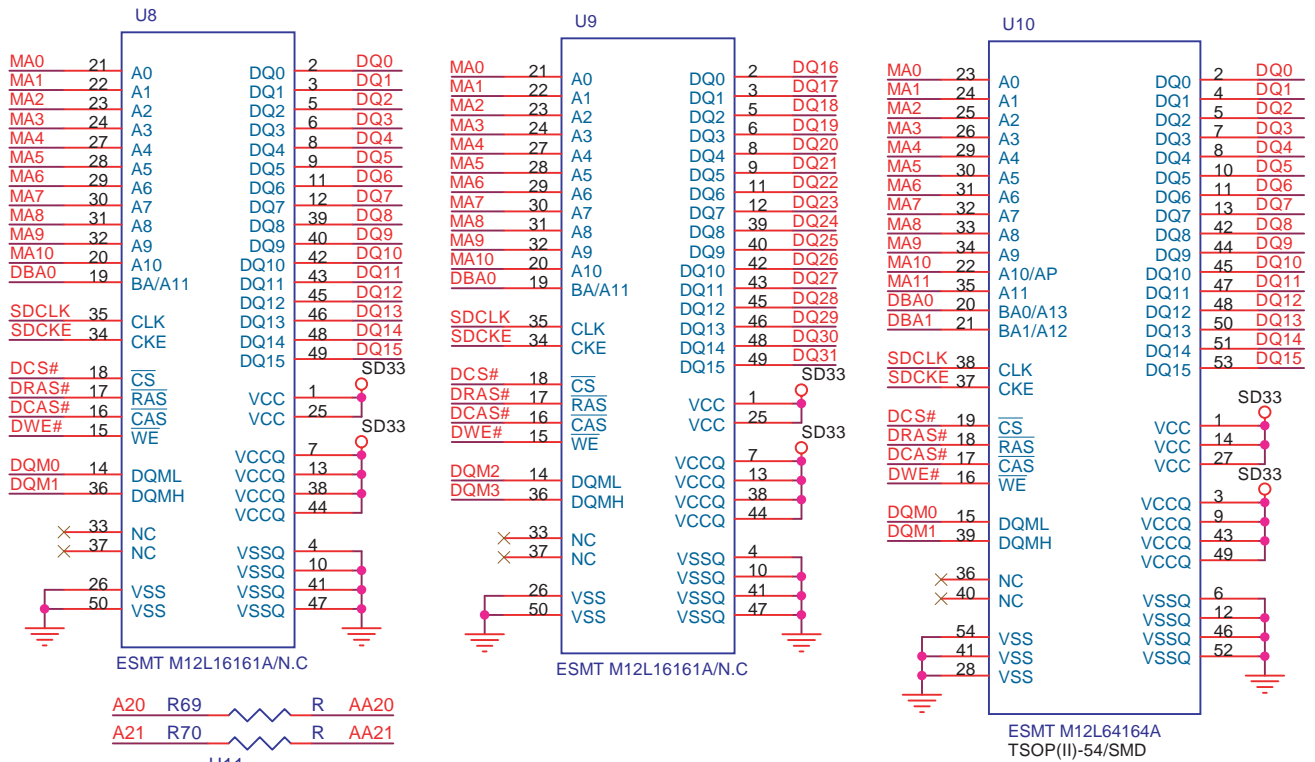
# DECODER PCB CIRCUIT DIAGRAM 4



	MODE
0	Software
1	Hardware

Hardware Mode  
24-bit Right Justified  
De-emphasis OFF

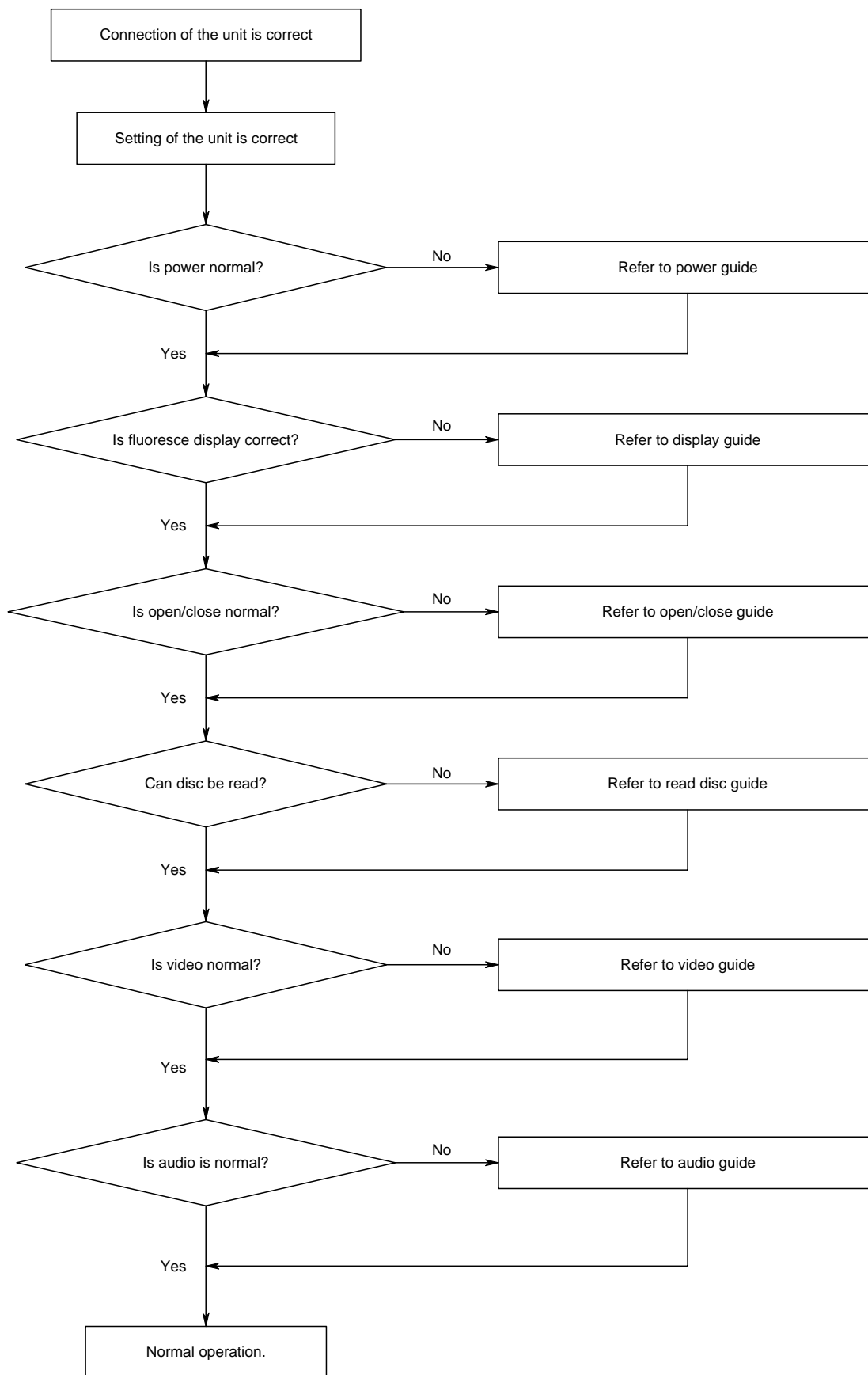
# DECODER PCB CIRCUIT DIAGRAM 5



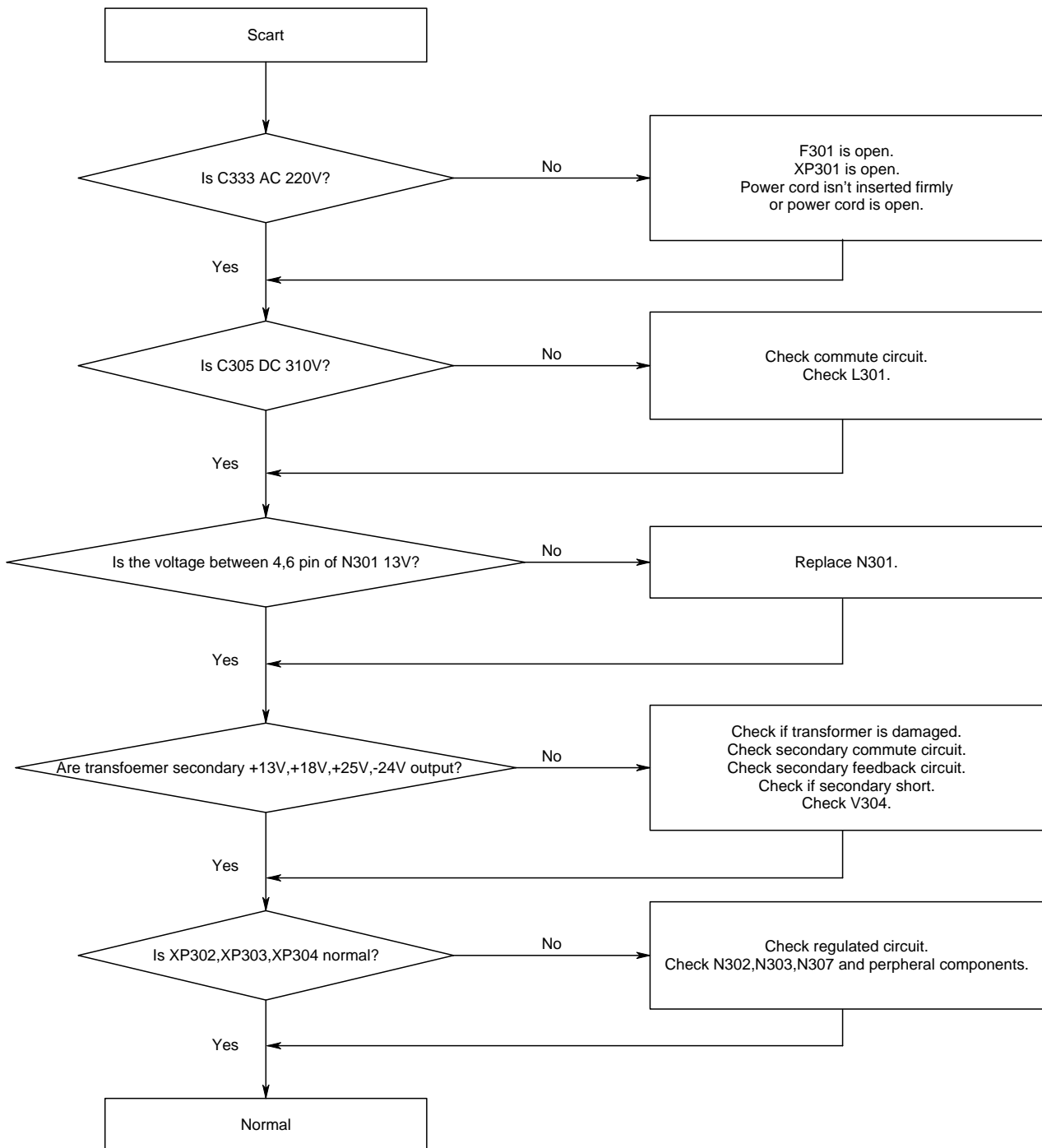


# TROUBLESHOOTING GUIDES

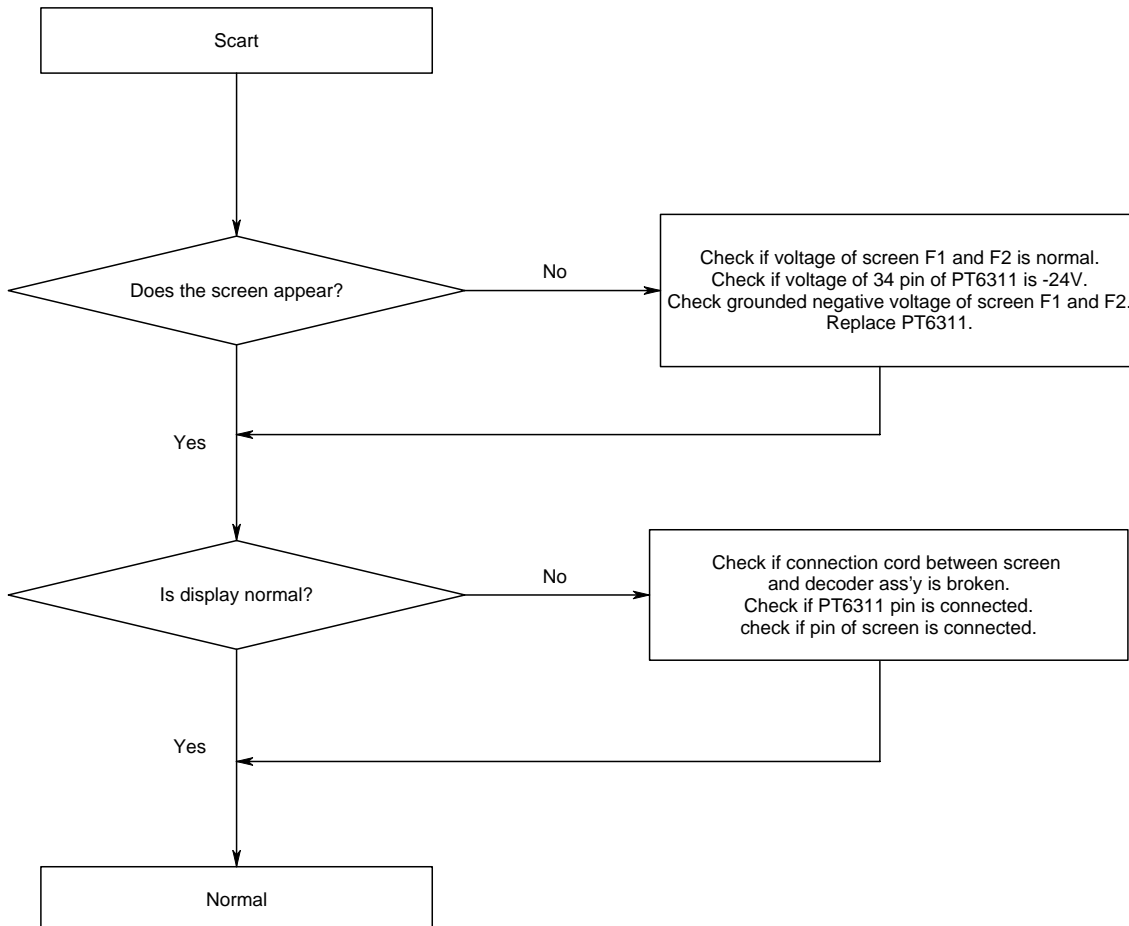
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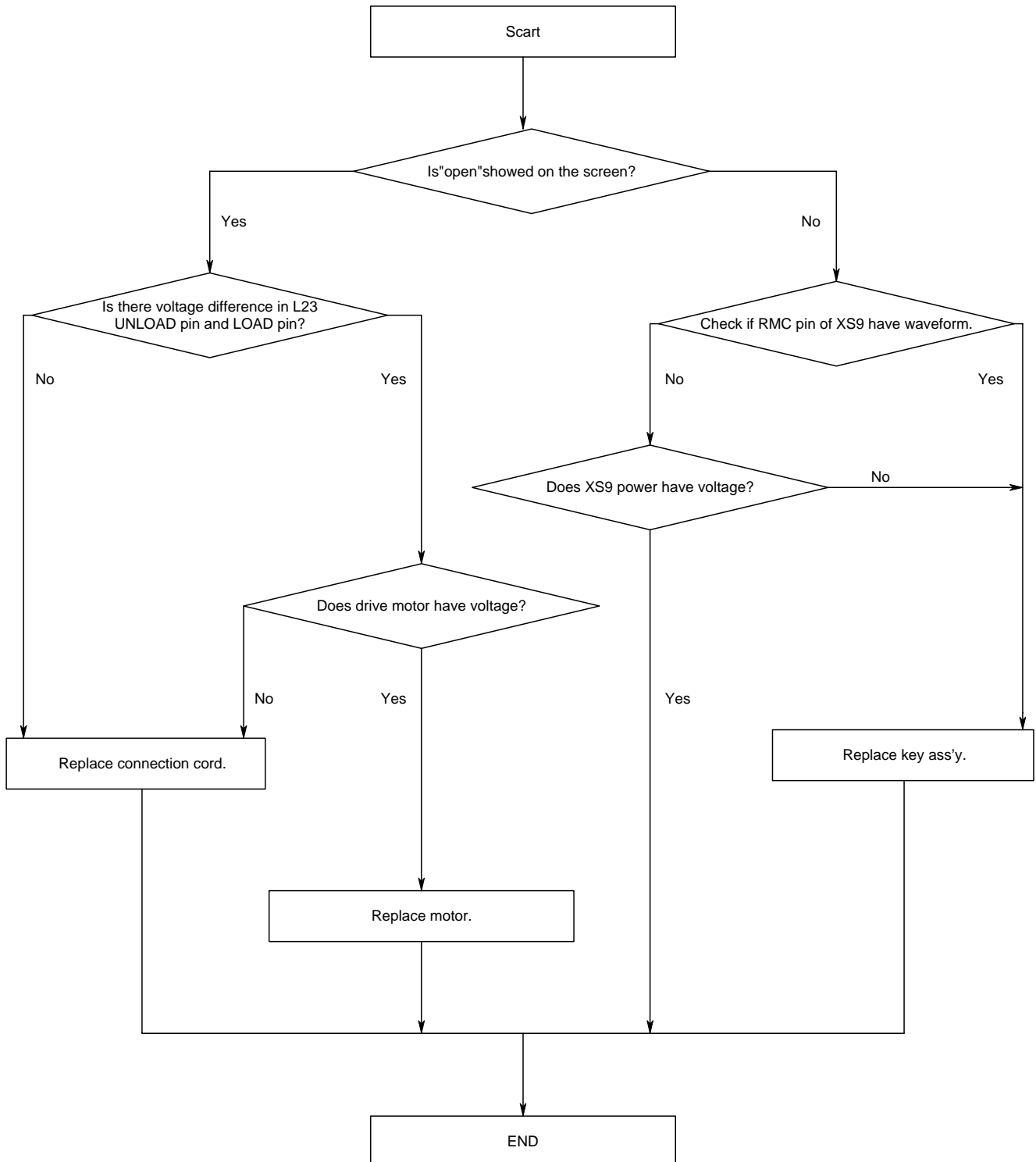
## A Power Circuit abnormal



## B Display abnormal

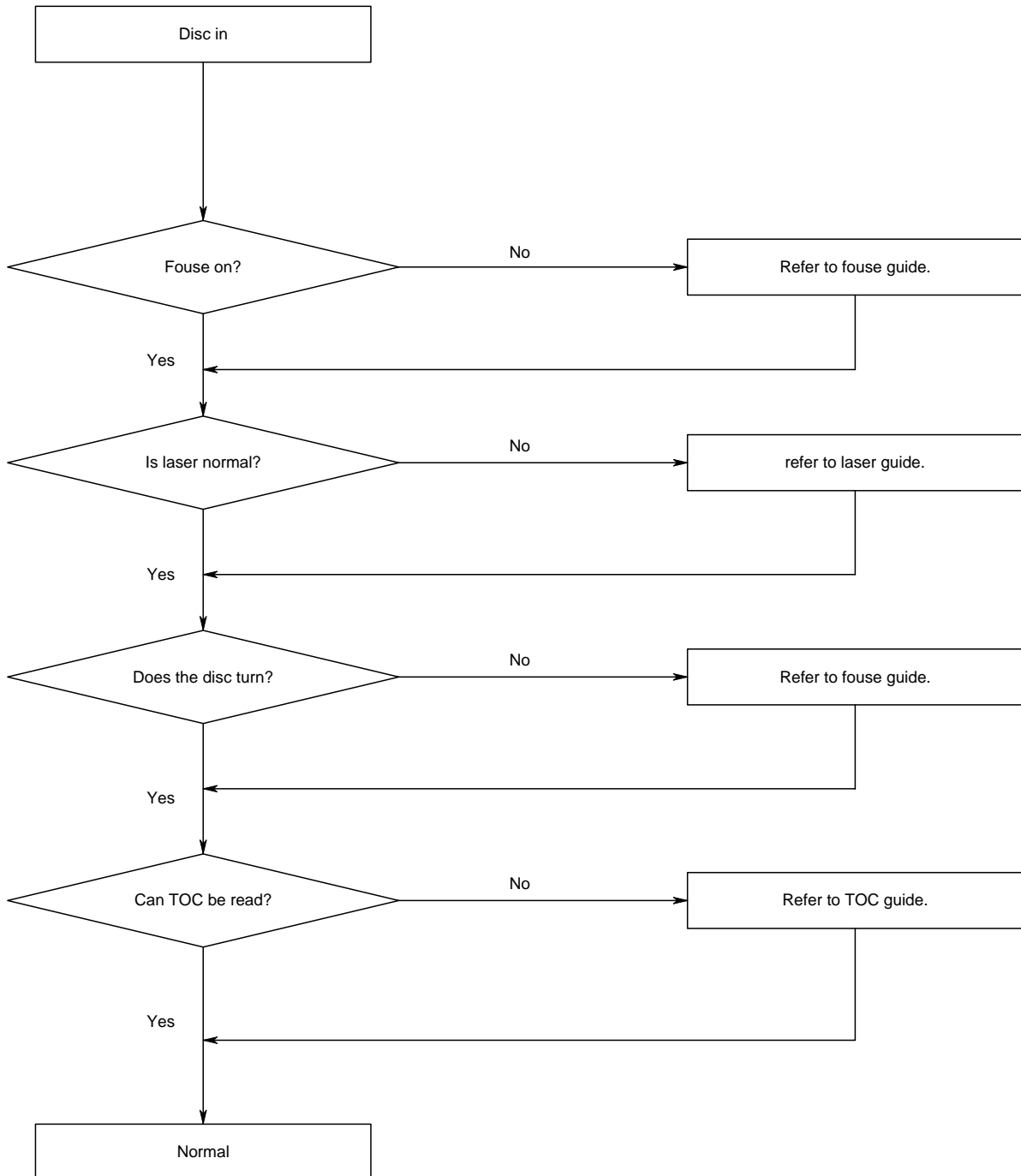


## C Open/close abnormal

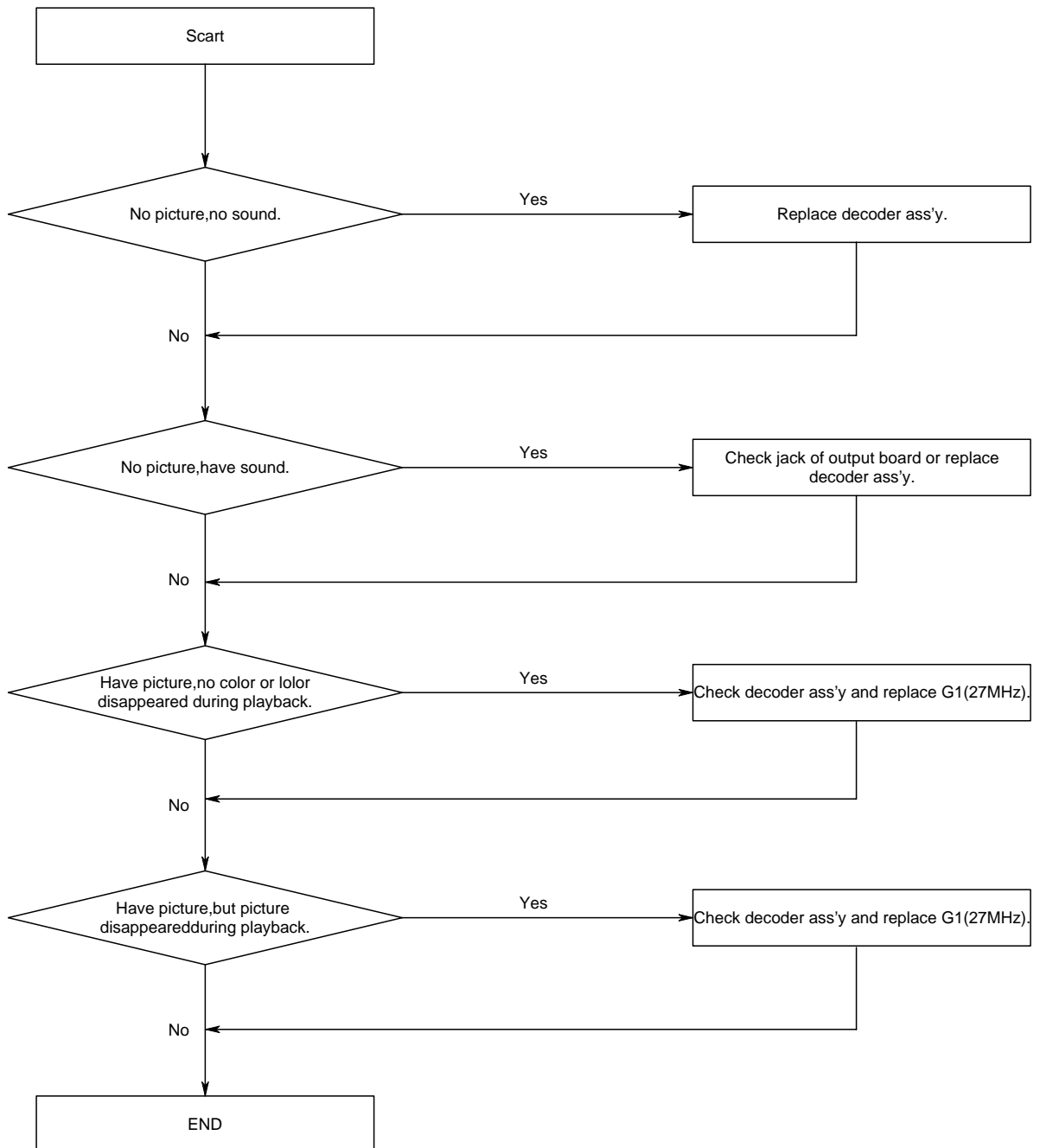


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## D Read disc abnormal

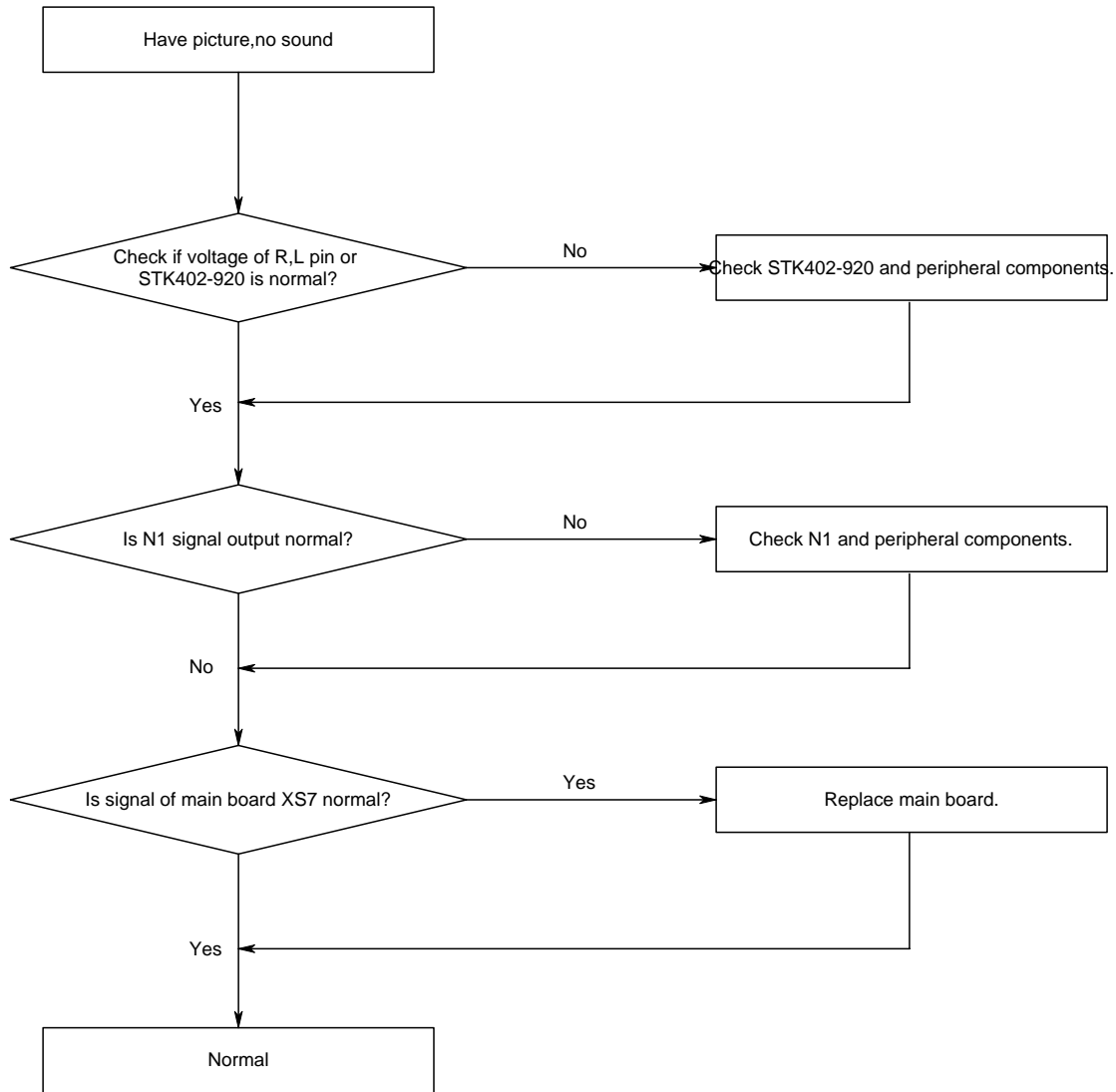


## E Video abnormal

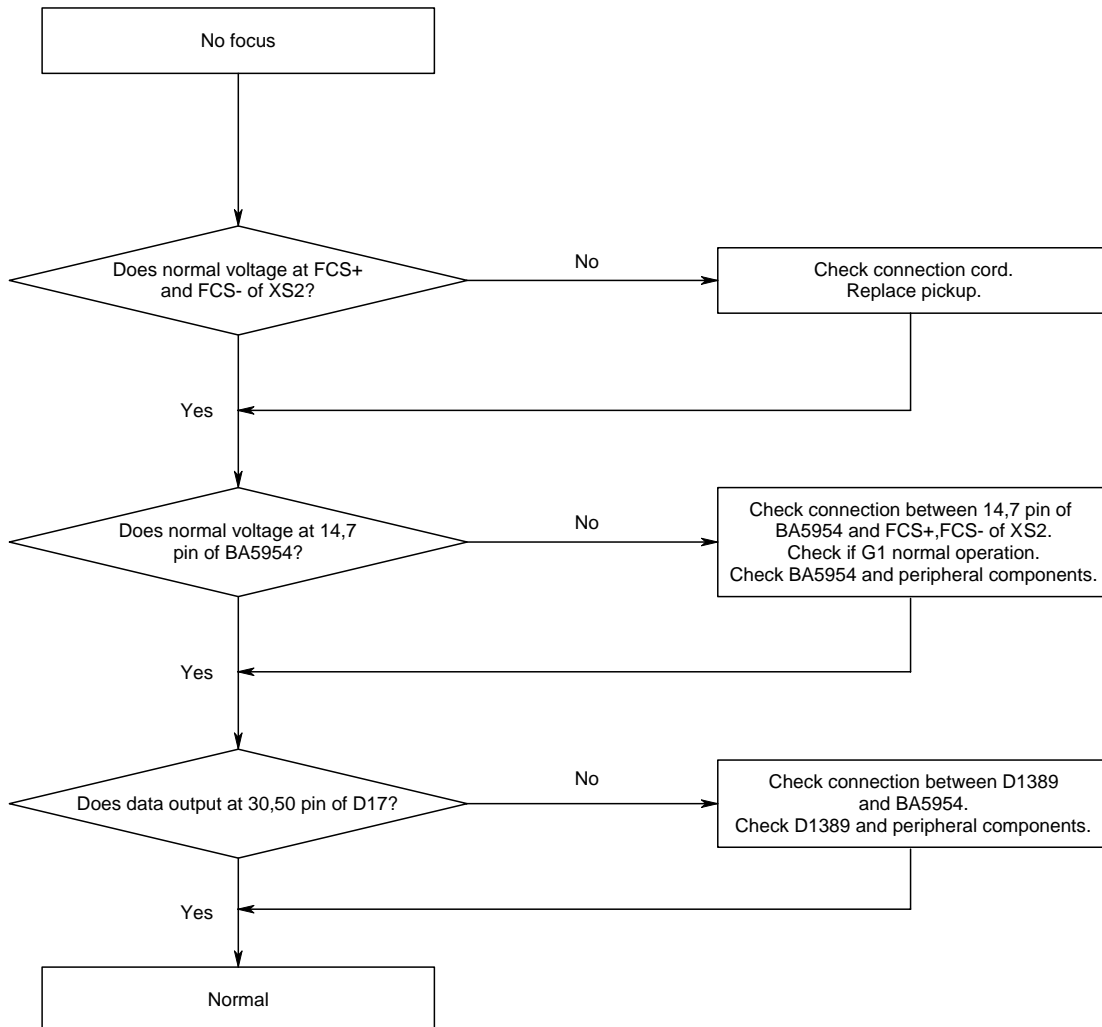


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## F Audio abnormal

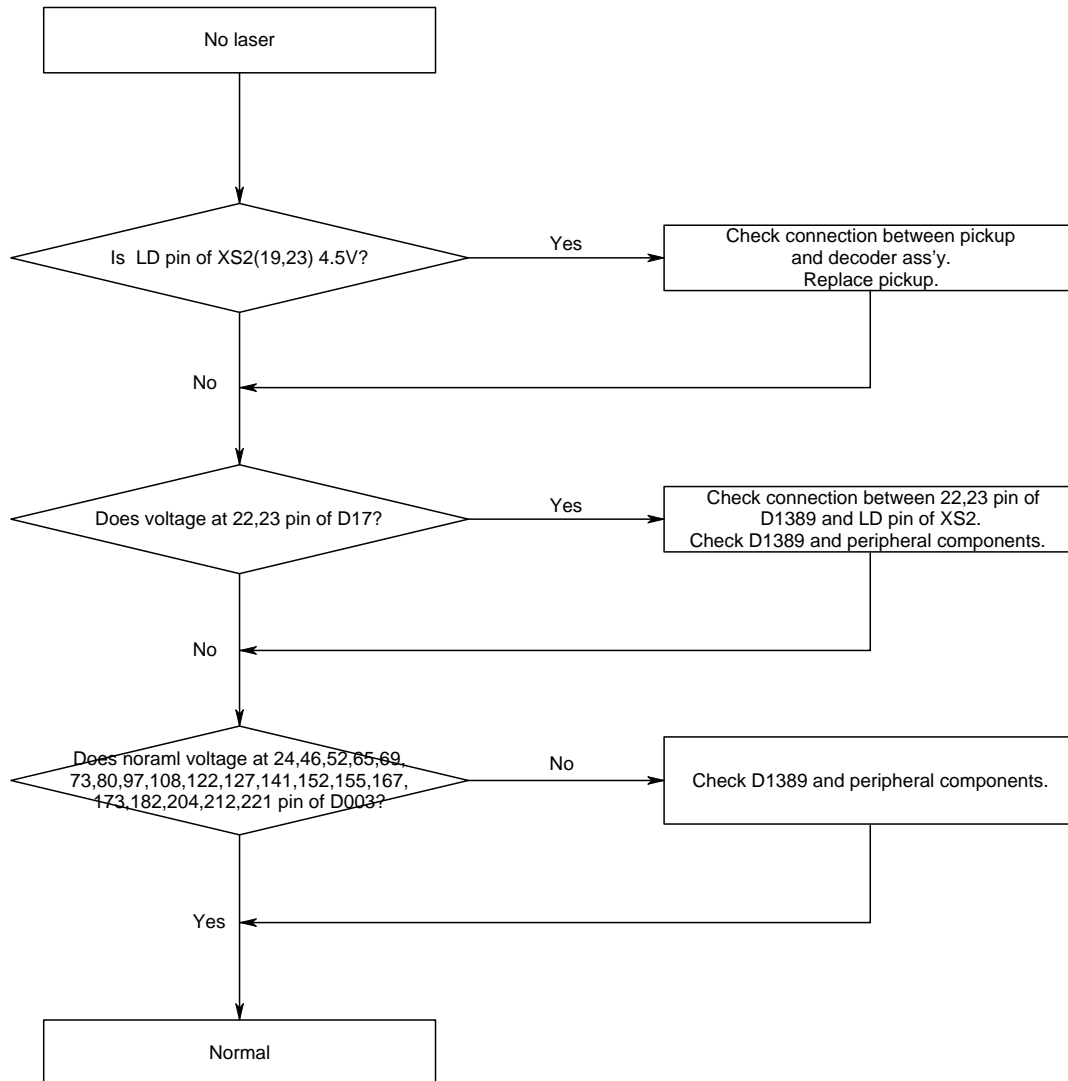


## G Focus abnormal

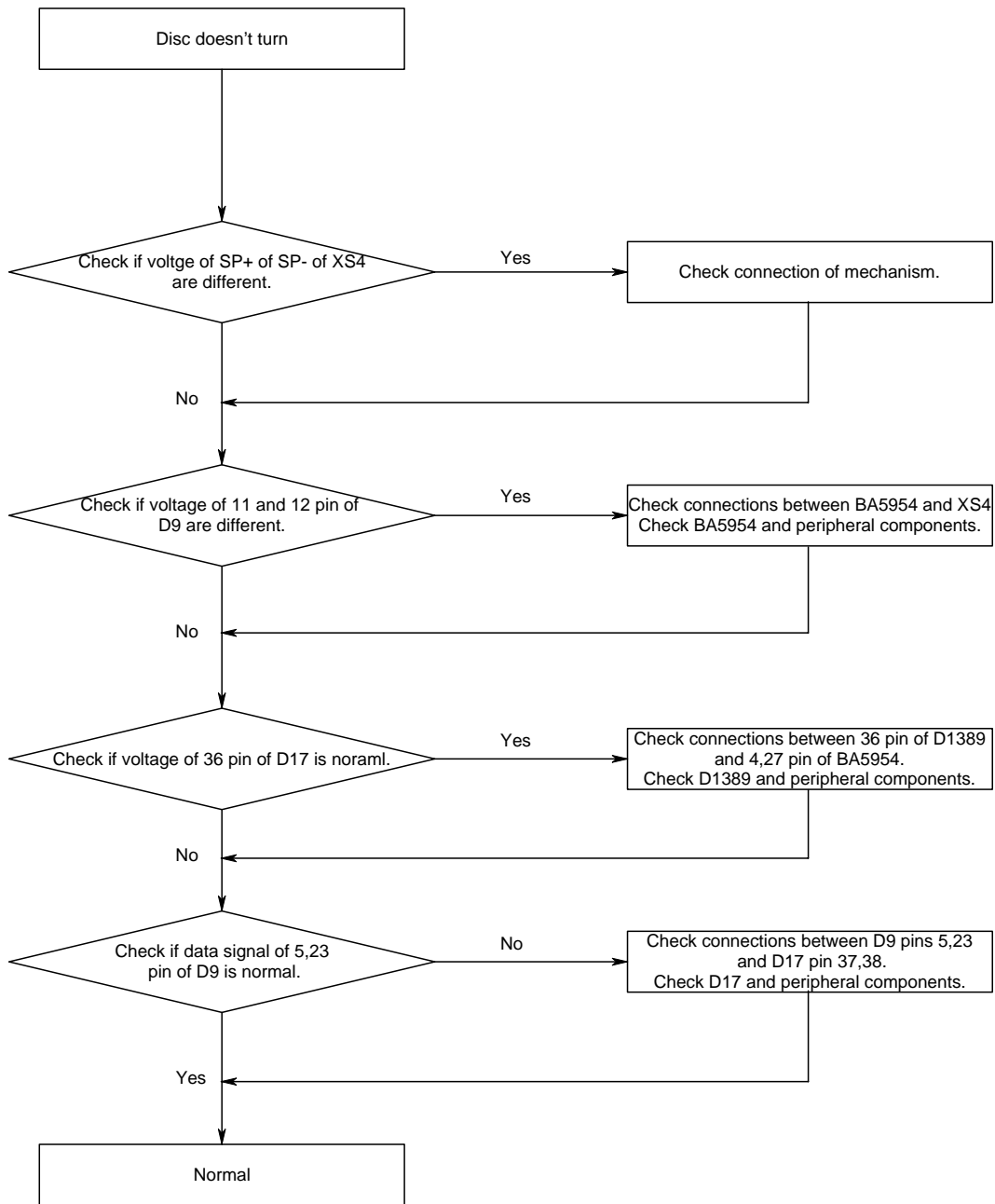




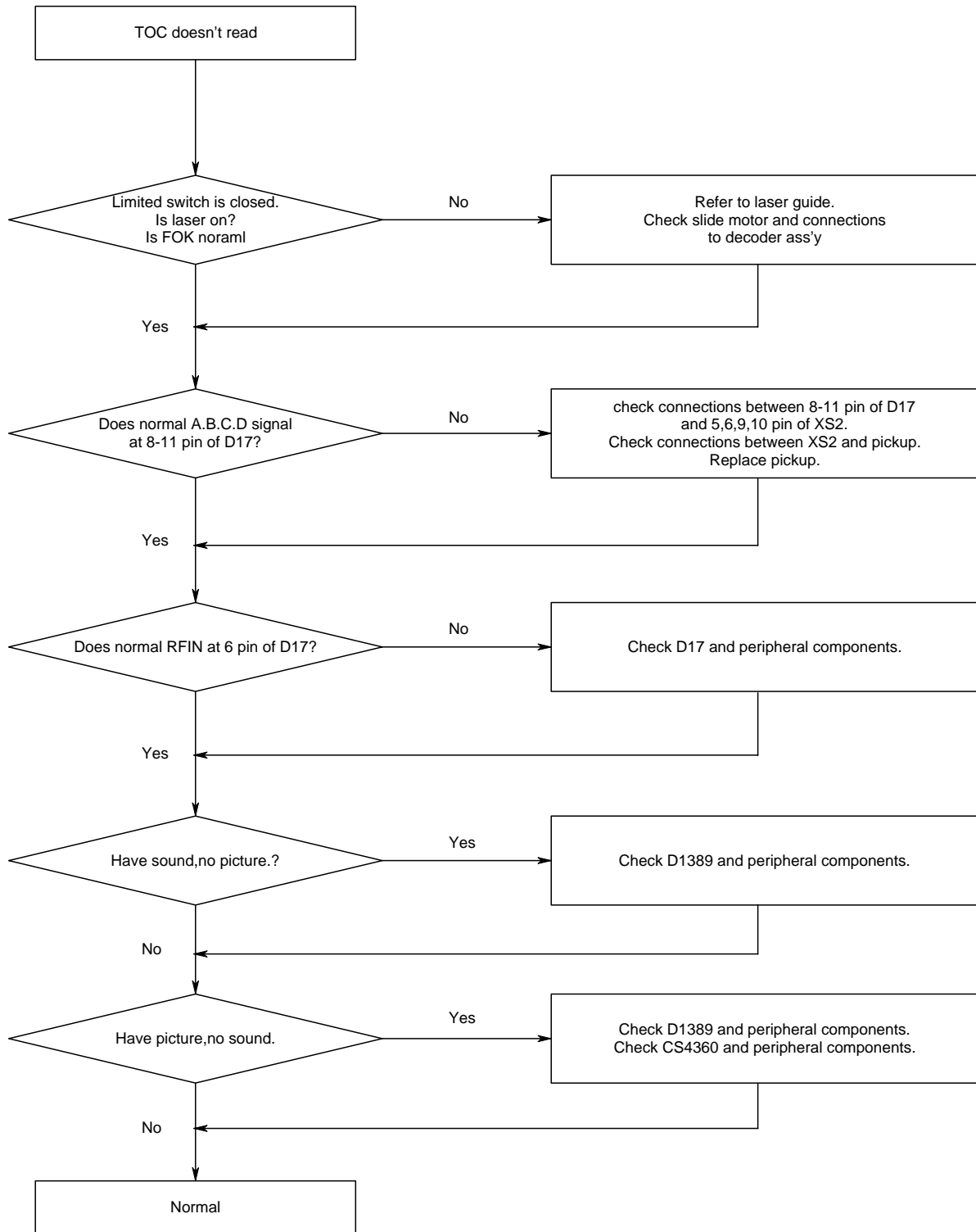
## H Laser abnormal



# I Turn abnormal










## J TOC abnormal



# REPLACEMENT PART LIST

**The following service parts list are available for purchase. Serviceman may quote the components shown in this page for servicing purposes.**

PRODUCT SAFETY NOTE : Components marked with a  have special characteristics important to safety. The use of a substitute replacement part which does not have the same safety characteristics may create shock, fire or other hazards. Don't degrade the safety of the receiver through improper servicing.

SYMBOL No.	PART No.	DESCRIPTIONS
<b><u>PWB ASSY</u></b>		
	YZE22112	Decoder PWB Assy
	YZE22137	SD/USB PWB Assy
	YZEA7594	FM Receiver Board TFCF1U802A
	YZES7713	Function Button PWB Assy
<b><u>IC</u></b>		
	N1 YZEP90263	STK402-920
	N2 YZEA4390	TDA7294
	N3 YZEA4503	PT2399(L)
	N301 YZEA4756	NCP1203P60G
	N303 YZEA4720	PQ1CG3032RZ
	N304 YZEA4752A	FCF10A20
	N306 YZEA4752A	FCF10A20
	V1 YZEA5009	KTC9014C
	V304 YZEA5114	PC817
<b><u>CAPACITORS</u></b>		
	C301 YZEA3447A	MKP61-275VAC-0.22u-K
	C303 YZEA3312	CT81-12B-2B4-471K-400VAC-YA
	C304 YZEA3312	CT81-12B-2B4-471K-400VAC-YA
	C307 YZEA2081	CT81-18B-2E4-472M-400VAC-YA
<b><u>DIODE &amp; TRIODE</u></b>		
	V301 YZEA5128	STP7NC70ZFP
	VD315 YZEA1597	KBU8K(806)
<b><u>MISCELLANEOUS</u></b>		
	F3011 YZEA6760	FUSE 6183.15MXA
	YZES06152	R/C Handset HTD-RM210
	YZES8134A	DVD Mechanism KHL-310A(DV34)
	YZES2586	Speaker Assy (4 + 1)
	YZES2588	Subwoofer Assy

## REPLACEMENT PART LIST ( FOR REFERENCE ONLY)

The components shown in the remaining pages served as a reference only. It is not meant for ordering of components for servicing purposes. Do not quote any components from these lists.

PART No.	PART NAME	Q'TY
<b>HTD-K210(Singapore)</b>		
YZE22112	DHC2630 DECODER ASS'Y	1
YZE22137	DVA2630SD/USB ASS'Y	1
YZEA7594	TFCF1U802A RECEIVER	1
YZES06152	HTD-RM210 REMOTE	1
YZES14154B	HTD-K210 OWNER MANUAL	1
YZES2586	HTD-K210 SPEAKER ASS'Y	1
YZES2588	HTD-K210 SUBWOOFER SPEAKER	1
YZES2672	VDE POWER CORD	1
YZES2701	7# BATTERY	2
YZES3021A	RCA CORD AUDIO	1
YZES3022A	RCA CORD VIDEO	1
YZES3024	POWER CORD HOLE	1
YZES30967	2630 CARD SIGNAL WIRE	1
YZES30968	2630 DECODER POWER WIRE	1
YZES30969	2630 LOADING WIRE	1
YZES30970	2630 OPEN WIRE	1
YZES30971	CC-1.25 11 190(A) WIRE	1
YZES3898	CC-0.5 24 400 WIRE	1
YZES3897	CC-1.0 12 360 WIRE	1
YZES3772	CC-1.0 8 170 WIRE	1
YZES3609	5M SPEAKER WIRE	1
YZES3610	8M SPEAKER WIRE	1
YZES4308	A300 FM ANTENNA	1
YZES8134A	KHL-310A(DV34) LOADING ASS'Y	1
YZES7710	AD2630 POWER ASS'Y	1
YZES7711	DVA2630 MIC ASS'Y	1
YZES7712	DVA2630 AMP ASS'Y	1
YZES7713	DVA2630 FUNCTION BUTTON ASS'Y	1

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<b>PART No.</b>	<b>PART NAME</b>	<b>Q'TY</b>
<b>HTD-K210(UAE)</b>		
YZE22112	DHC2630 DECODER ASS'Y	1
YZE22137	DVA2630SD/USB ASS'Y	1
YZEA7594	TFCF1U802A RECEIVER	1
YZES06152	HTD-RM210 REMOTE	1
YZES14154B	HTD-K210 OWNER MANUAL	1
YZES2586	HTD-K210 SPEAKER ASS'Y	1
YZES2588	HTD-K210 SUBWOOFER SPEAKER	1
YZES2637	BS POWER CORD	1
YZES2701	7# BATTERY	2
YZES3021A	RCA CORD AUDIO	1
YZES3022A	RCA CORD VIDEO	1
YZES3024	POWER CORD HOLE	1
YZES30967	2630 CARD SIGNAL WIRE	1
YZES30968	2630 DECODER POWER WIRE	1
YZES30969	2630 LOADING WIRE	1
YZES30970	2630 OPEN WIRE	1
YZES30971	CC-1.25 11 190(A) WIRE	1
YZES3898	CC-0.5 24 400 WIRE	1
YZES3897	CC-1.0 12 360 WIRE	1
YZES3772	CC-1.0 8 170 WIRE	1
YZES3609	5M SPEAKER WIRE	1
YZES3610	8M SPEAKER WIRE	1
YZES4308	A300 FM ANTENNA	1
YZES8134A	KHL-310A(DV34) LOADING ASS'Y	1
YZES7710	AD2630 POWER ASS'Y	1
YZES7711	DVA2630 MIC ASS'Y	1
YZES7712	DVA2630 AMP ASS'Y	1
YZES7713	DVA2630 FUNCTION BUTTON ASS'Y	1

The components shown in the remaining pages served as a reference only. It is not meant for ordering of components for servicing purposes. Do not quote any components from these lists.

<b>PART No.</b>	<b>PART NAME</b>	<b>Q'TY</b>
<b>HTD-K210(Germany)</b>		
YZE22112	DHC2630 DECODER ASS'Y	1
YZE22137	DVA2630SD/USB ASS'Y	1
YZEA7594	TFCF1U802A RECEIVER	1
YZES06152	HTD-RM210 REMOTE	1
YZES14154B	HTD-K210 OWNER MANUAL	1
YZES2586	HTD-K210 SPEAKER ASS'Y	1
YZES2588	HTD-K210 SUBWOOFER SPEAKER	1
YZES2672	VDE POWER CORD	1
YZES2701	7# BATTERY	2
YZES3021A	RCA CORD AUDIO	1
YZES3022A	RCA CORD VIDEO	1
YZES3024	POWER CORD HOLE	1
YZES30967	2630 CARD SIGNAL WIRE	1
YZES30968	2630 DECODER POWER WIRE	1
YZES30969	2630 LOADING WIRE	1
YZES30970	2630 OPEN WIRE	1
YZES30971	CC-1.25 11 190(A) WIRE	1
YZES3898	CC-0.5 24 400 WIRE	1
YZES3897	CC-1.0 12 360 WIRE	1
YZES3772	CC-1.0 8 170 WIRE	1
YZES3609	5M SPEAKER WIRE	1
YZES3610	8M SPEAKER WIRE	1
YZES4308	A300 FM ANTENNA	1
YZES8134A	KHL-310A(DV34) LOADING ASS'Y	1
YZES7710	AD2630 POWER ASS'Y	1
YZES7711	DVA2630 MIC ASS'Y	1
YZES7712	DVA2630 AMP ASS'Y	1
YZES7713	DVA2630 FUNCTION BUTTON ASS'Y	1

The components shown in the remaining pages served as a reference only. It is not meant for ordering of components for servicing purposes. Do not quote any components from these lists.

<b>PART No.</b>	<b>PART NAME</b>	<b>Q'TY</b>
<b>HTD-K210(Russia)</b>		
YZE22112	DHC2630 DECODER ASS'Y	1
YZE22137	DVA2630SD/USB ASS'Y	1
YZEA7594	TFCF1U802A RECEIVER	1
YZES06152	HTD-RM210 REMOTE	1
YZES14154B	HTD-K210 OWNER MANUAL	1
YZES2586	HTD-K210 SPEAKER ASS'Y	1
YZES2588	HTD-K210 SUBWOOFER SPEAKER	1
YZES2672	VDE POWER CORD	1
YZES2701	7# BATTERY	2
YZES3021A	RCA CORD AUDIO	1
YZES3022A	RCA CORD VIDEO	1
YZES3024	POWER CORD HOLE	1
YZES30967	2630 CARD SIGNAL WIRE	1
YZES30968	2630 DECODER POWER WIRE	1
YZES30969	2630 LOADING WIRE	1
YZES30970	2630 OPEN WIRE	1
YZES30971	CC-1.25 11 190(A) WIRE	1
YZES3898	CC-0.5 24 400 WIRE	1
YZES3897	CC-1.0 12 360 WIRE	1
YZES3772	CC-1.0 8 170 WIRE	1
YZES3609	5M SPEAKER WIRE	1
YZES3610	8M SPEAKER WIRE	1
YZES4308	A300 FM ANTENNA	1
YZES8134A	KHL-310A(DV34) LOADING ASS'Y	1
YZES7710	AD2630 POWER ASS'Y	1
YZES7711	DVA2630 MIC ASS'Y	1
YZES7712	DVA2630 AMP ASS'Y	1
YZES7713	DVA2630 FUNCTION BUTTON ASS'Y	1



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REF No.	PART No.	PART NAME
<b>DVA2630 FUNCTION BUTTON ASS'Y</b>		
S1	YZEA6434	TOUCH EVQ11L04W
S2	YZEA6434	TOUCH EVQ11L04W
S3	YZEA6434	TOUCH EVQ11L04W
S4	YZEA6434	TOUCH EVQ11L04W
S5	YZEA6434	TOUCH EVQ11L04W
S6	YZEA6434	TOUCH EVQ11L04W
S7	YZEA6434	TOUCH EVQ11L04W
S8	YZEA6434	TOUCH EVQ11L04W
S9	YZEA6434	TOUCH EVQ11L04W
S10	YZEA6434	TOUCH EVQ11L04W
S11	YZEA6434	TOUCH EVQ11L04W
S12	YZEA6434	TOUCH EVQ11L04W
S14	YZEA6434	TOUCH EVQ11L04W
C1	YZEA2056	CS1-06B-104Z-63V-Y5V
C2	YZEA3579	CD11CX-100uF-M-16V
C3	YZEA2056	CS1-06B-104Z-63V-Y5V
C101	YZEA2056	CS1-06B-104Z-63V-Y5V
C102	YZEA2056	CS1-06B-104Z-63V-Y5V
C103	YZEA3579	CD11CX-100uF-M-16V
R1	YZEG0903	RT13-0.167W-620-1%
R2	YZEG0903	RT13-0.167W-620-1%
R3	YZEG0903	RT13-0.167W-620-1%
R4	YZEG0903	RT13-0.167W-620-1%
R101	YZEG0784	RT13-0.167W-510-5%
R102	YZEG0735	RT13-0.167W-10K-5%
R103	YZEG0735	RT13-0.167W-10K-5%
R104	YZEG0735	RT13-0.167W-10K-5%
R105	YZEG0735	RT13-0.167W-10K-5%
R106	YZEG0704	RT13-0.167W-4.7-5%
R107	YZEG0735	RT13-0.167W-10K-5%
R108	YZEG0735	RT13-0.167W-10K-5%
R109	YZEG0735	RT13-0.167W-10K-5%
R110	YZEG0735	RT13-0.167W-10K-5%
R111	YZEG0735	RT13-0.167W-10K-5%
R112	YZEG0735	RT13-0.167W-10K-5%
R113	YZEG0728	RT13-0.167W-4.7K-5%
R114	YZEG0714	RT13-0.167W-180-5%
R115	YZEG0714	RT13-0.167W-180-5%
R116	YZEG0710	RT13-0.167W-56-5%
R117	YZEG0705	RT13-0.167W-10-5%

REF No.	PART No.	PART NAME
VD1	YZEA5004	1N4148
VD2	YZEA5004	1N4148
VD3	YZEA5004	1N4148
VD4	YZEA5004	1N4148
VD5	YZEA5004	1N4148
VD6	YZEA1118A	CZ5V6
LED1	YZEA1500	RED LED
LED2	YZEA1661	BLUE LED
LED3	YZEA1661	BLUE LED
LED4	YZEA1661	BLUE LED
LED5	YZEA1661	BLUE LED
B1	YZEA6733A	AT138B
N1	YZEP4399	PT6311
RP1	YZEA6216	KHX3-3W1D
VF1	YZEA6918A	VFD20-0605A
XP1	YZEP7075	FPC1WE-SMT-8PW
XS1	YZEA9289	DVA-2630 VFD POWER WIRE
XS2	YZEA6519	S-3B-PH SOCKET
<b>DVA2630 MIC ASS'Y</b>		
<b>RESISTOR</b>		
R1	YZEG0754	RT13-0.167W-120K-5%
R2	YZEG0722	RT13-0.167W-2.2K-5%
R3	YZEG0738	RT13-0.167W-15K-5%
R4	YZEG0740	RT13-0.167W-20K-5%
R5	YZEG0728	RT13-0.167W-4.7K-5%
R6	YZEG0754	RT13-0.167W-120K-5%
R7	YZEG0722	RT13-0.167W-2.2K-5%
R8	YZEG0738	RT13-0.167W-15K-5%
R9	YZEG0735	RT13-0.167W-10K-5%
R10	YZEG0705	RT13-0.167W-10-5%
R11	YZEG0705	RT13-0.167W-10-5%
R12	YZEG0724	RT13-0.167W-3K-5%
R13	YZEG0735	RT13-0.167W-10K-5%
R14	YZEG0728	RT13-0.167W-4.7K-5%
R16	YZEG0735	RT13-0.167W-10K-5%
R17	YZEG0738	RT13-0.167W-15K-5%
R18	YZEG0753	RT13-0.167W-100K-5%
R19	YZEG0731	RT13-0.167W-6.8K-5%
R20	YZEG0724	RT13-0.167W-3K-5%
R21	YZEG0753	RT13-0.167W-100K-5%
R22	YZEG0737	RT13-0.167W-12K-5%

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REF No.	PART No.	PART NAME
R23	YZEG0728	RT13-0.167W-4.7K-5%
R24	YZEG0737	RT13-0.167W-12K-5%
R25	YZEG0735	RT13-0.167W-10K-5%
R26	YZEG0719	RT13-0.167W-1K-5%
R27	YZEG0735	RT13-0.167W-10K-5%
R28	YZEG0753	RT13-0.167W-100K-5%
R29	YZEG0735	RT13-0.167W-10K-5%
R30	YZEG0753	RT13-0.167W-100K-5%
R31	YZEG0719	RT13-0.167W-1K-5%
R32	YZEG0753	RT13-0.167W-100K-5%
R33	YZEG0722	RT13-0.167W-2.2K-5%
R34	YZEG0705	RT13-0.167W-10-5%
R35	YZEG0722	RT13-0.167W-2.2K-5%
R36	YZEG0722	RT13-0.167W-2.2K-5%
R37	YZEG0722	RT13-0.167W-2.2K-5%
R38	YZEG0705	RT13-0.167W-10-5%
R39	YZEG0705	RT13-0.167W-10-5%
RHEOSTAT		
RP1	YZEA0511	WH06-2-22K
RP2	YZEA0638	WH9011-2AC-50KC 20/5
RP3	YZEA0638	WH9011-2AC-50KC 20/5
CAPACITOR		
C1	YZEA2015	CC1-05B-20K-63V-CH
C2	YZEA2056	CS1-06B-104Z-63V-Y5V
C3	YZEA3508	CD110-4.7uF-M-16V
C4	YZEA3505	CD110-1u-M-16V
C5	YZEA3509	CD110-10u-M-16V
C6	YZEA3508	CD110-4.7uF-M-16V
C7	YZEA3579	CD11CX-100uF-M-16V
C8	YZEA3508	CD110-4.7uF-M-16V
C9	YZEA3509	CD110-10u-M-16V
C10	YZEA3505	CD110-1u-M-16V
C11	YZEA3607	CD110X-22u-M-50V
C12	YZEA2015	CC1-05B-20K-63V-CH
C13	YZEA3512	CD110X-47u-M-16V
C14	YZEA3044	CL11-5600P-100V-K
C15	YZEA3509	CD110-10u-M-16V
C16	YZEA2015	CC1-05B-20K-63V-CH
C17	YZEA3579	CD11CX-100uF-M-16V
C18	YZEA3508	CD110-4.7uF-M-16V
C19	YZEA3512	CD110X-47u-M-16V

REF No.	PART No.	PART NAME
C20	YZEA3579	CD11CX-100uF-M-16V
C21	YZEA3044	CL11-5600P-100V-K
C22	YZEA3508	CD110-4.7uF-M-16V
C23	YZEA2038	CC1-10B-511K-63V-SL
C24	YZEA2056	CS1-06B-104Z-63V-Y5V
C25	YZEA3041	CL11-3900P-100V-K
C26	YZEA3509	CD110-10u-M-16V
C27	YZEA3508	CD110-4.7uF-M-16V
C28	YZEA3512	CD110X-47u-M-16V
C29	YZEA3508	CD110-4.7uF-M-16V
C30	YZEA2038	CC1-10B-511K-63V-SL
C31	YZEA2056	CS1-06B-104Z-63V-Y5V
C32	YZEA2056	CS1-06B-104Z-63V-Y5V
C33	YZEA2056	CS1-06B-104Z-63V-Y5V
C34	YZEA2056	CS1-06B-104Z-63V-Y5V
C35	YZEA2015	CC1-05B-20K-63V-CH
C36	YZEA2056	CS1-06B-104Z-63V-Y5V
C37	YZEA3579	CD11CX-100uF-M-16V
C38	YZEA2056	CS1-06B-104Z-63V-Y5V
C39	YZEA3579	CD11CX-100uF-M-16V
C40	YZEA2056	CS1-06B-104Z-63V-Y5V
C41	YZEA2056	CS1-06B-104Z-63V-Y5V
C42	YZEA2056	CS1-06B-104Z-63V-Y5V
C43	YZEA2056	CS1-06B-104Z-63V-Y5V
C44	YZEA2056	CS1-06B-104Z-63V-Y5V
IC		
N1	YZEA4042B	UTC4558
N2	YZEA4042B	UTC4558
N3	YZEA4503	PT2399(L)
OTHER		
V1	YZEA5009	KTC9014C
V2	YZEA5009	KTC9014C
X1	YZEA6871B	CKX-6.35-7 JACK
X2	YZEA6871B	CKX-6.35-7 JACK
XP3	YZEA9199	MIC WIRE
<b>AD2630 POWER ASS'Y</b>		
RESISTOR		
R301	YZEG0080	RT14-0.25W-39K-5%
R302	YZEG0074	RT14-0.25W-22K-5%
R303	YZEG0753	RT13-0.167W-100K-5%
R304	YZEG0712	RT13-0.167W-100-5%

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REF No.	PART No.	PART NAME
R305	YZEG0735	RT13-0.167W-10K-5%
R306	YZEG0707	RT13-0.167W-22-5%
R307	YZEG0010	RT14-0.25W-22-5%
R308	YZEG0719	RT13-0.167W-1K-5%
R309	YZEA0416	RX27-1-3W-47K-5%
R310	YZEA0415	RGC2-2W-0.22J-10%
R312	YZEG0705	RT13-0.167W-10-5%
R313	YZEG0742	RT13-0.167W-24K-5%
R314	YZEG0909	RT13-0.167W-3.6K-5%
R315	YZEG0778	RT13-0.167W-680-5%
R316	YZEG0724	RT13-0.167W-3K-5%
R317	YZEG0909	RT13-0.167W-3.6K-5%
R318	YZEG0719	RT13-0.167W-1K-5%
R319	YZEA1142A	CZ4V3
R320	YZEG0728	RT13-0.167W-4.7K-5%
R321	YZEG0719	RT13-0.167W-1K-5%
R322	YZEG0728	RT13-0.167W-4.7K-5%
R336	YZEG0759	RT13-0.167W-220K-5%
R337	YZEG0744	RT13-0.167W-33K-5%
CAPACITOR		
△C301	YZEA3447A	MKP61-275VAC-0.22u-K
C302	YZEA2028	CC1-05B-121K-63V-SL
△C303	YZEA3312	CT81-12B-2B4-471K-400VAC-YA
△C304	YZEA3312	CT81-12B-2B4-471K-400VAC-YA
C305	YZEA3496	CD293-120uF-M-400V
C306	YZEA2077	CT81-14B-2E4-103M-1KV
△C307	YZEA2081	CT81-18B-2E4-472M-400VAC-YA
C308	YZEA2048	CT1-05B-472M-63V-Y5V
C310	YZEA2036	CC1-08B-391K-63V-SL
C311	YZEA2063	CC81-06B-47K-1KV-SL
C313	YZEA2056	CS1-06B-104Z-63V-Y5V
C314	YZEA3495A	CD288-2200uF-M-25V
C315	YZEA3607	CD110X-22uF-M-50V
C316	YZEA3495A	CD288-2200uF-M-25V
C317	YZEA3607	CD110X-22uF-M-50V
C318	YZEA3514	CD110X-220uF-M-16V
C319	YZEA3561	CD110X-470uF-M-10V
C321	YZEA3244	CD288-470uF-M-35V
C322	YZEA3607	CD110X-22uF-M-50V
C323	YZEA3509	CD110-10uF-M-16V
C325	YZEA3495A	CD288-2200uF-M-25V

REF No.	PART No.	PART NAME
C327	YZEA3495A	CD288-2200uF-M-25V
C328	YZEA3607	CD110X-22uF-M-50V
C339	YZEA3607	CD110X-22uF-M-50V
DIODE		
VD302	YZEA5005A	1N4007-YG
VD303	YZEA5163	SR560(BL)
VD304	YZEA1598	HER208-YG
VD305	YZEA5004	1N4148
VD306	YZEA5004	1N4148
VD309	YZEA1619	E6KE250A
VD310	YZEA1202A	SF16-YG
VD311	YZEA5004	1N4148
VD312	YZEA1202A	SF16-YG
VD313	YZEA5129	SF36-YG
VD314	YZEA5129	SF36-YG
VD315	YZEA1597	KBU8K(806)
TRIODE		
V301	YZEA5128	STP7NC70ZFP
V302	YZEA5104A	8550D
V303	YZEA5009A	9014C
△V304	YZEA5114	PC817
V305	YZEA5009A	9014C
V306	YZEA5009A	9014C
V307	YZEA5104A	8550D
IC		
N301	YZEA4756	NCP1203P60G
N302	YZEA4714B	MC7809CTG
N303	YZEA4720	PQ1CG3032RZ
N304	YZEA4752A	FCF10A20
N305	YZEA4557A	UTC431
N306	YZEA4752A	FCF10A20
N307	YZEA4636	CW7905CS
OTHER		
△T301	YZEA7348	DCK-2620 TRANSFORMER
F301	YZEA6929	FC502H FUSE HOLDER
△F3011	YZEA6760	FUSE 6183.15MXA
△L301	YZEA7102	LV-ET28A FILTER
L302	YZEA7020	ZBF253L-4
L303	YZEA7020	ZBF253L-4
L304	YZEA7233	220uH
L305	YZEA7005	100uH

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REF No.	PART No.	PART NAME
L306	YZEA1126B	CZ6V2
L307	YZEA7231	COIL-4.7uH-SZ
XP301	YZEA6601	2 PIN SOCKET
XP302	YZEA6508	B-3B-PH 3 PIN SOCKET
XP303	YZEA9284	DVA2630 POWER WIRE
XP304	YZEA6512	B-7B-PH 7 PIN SOCKET
<b>DVA2630 AMP ASS'Y</b>		
R1	YZEA0476	RY26-1W-10-5%
R2	YZEA0476	RY26-1W-10-5%
R3	YZEG0735	RT13-0.167W-10K-5%
R12	YZEG0753	RT13-0.167W-100K-5%
R13	YZEG0919	RT13-0.167W-3.9K-5%
R14	YZEG0784	RT13-0.167W-56K-5%
R15	YZEG0719	RT13-0.167W-1K-5%
R16	YZEG0746	RT13-0.167W-39K-5%
R22	YZEG0753	RT13-0.167W-100K-5%
R23	YZEG0919	RT13-0.167W-3.9K-5%
R24	YZEG0784	RT13-0.167W-56K-5%
R25	YZEG0719	RT13-0.167W-1K-5%
R26	YZEG0746	RT13-0.167W-39K-5%
R32	YZEG0753	RT13-0.167W-100K-5%
R33	YZEG0919	RT13-0.167W-3.9K-5%
R34	YZEG0784	RT13-0.167W-56K-5%
R35	YZEG0719	RT13-0.167W-1K-5%
R36	YZEG0746	RT13-0.167W-39K-5%
R42	YZEG0753	RT13-0.167W-100K-5%
R43	YZEG0919	RT13-0.167W-3.9K-5%
R44	YZEG0784	RT13-0.167W-56K-5%
R45	YZEG0719	RT13-0.167W-1K-5%
R46	YZEG0746	RT13-0.167W-39K-5%
R52	YZEG0753	RT13-0.167W-100K-5%
R53	YZEG0919	RT13-0.167W-3.9K-5%
R54	YZEG0784	RT13-0.167W-56K-5%
R55	YZEG0719	RT13-0.167W-1K-5%
R56	YZEG0746	RT13-0.167W-39K-5%
R61	YZEG0719	RT13-0.167W-1K-5%
R62	YZEG0735	RT13-0.167W-10K-5%
R63	YZEG0719	RT13-0.167W-1K-5%
R64	YZEG0753	RT13-0.167W-100K-5%
R65	YZEG0758	RT13-0.167W-200K-5%
R66	YZEG0719	RT13-0.167W-1K-5%

REF No.	PART No.	PART NAME
R67	YZEA0210	RJ-1W-1.2K-5%
R68	YZEG0759	RT13-0.167W-220K-5%
R69	YZEG0750	RT13-0.167W-62K-5%
R70	YZEG0735	RT13-0.167W-10K-5%
R81	YZEA0476	RY26-1W-10-5%
R82	YZEA0476	RY26-1W-10-5%
R83	YZEA0476	RY26-1W-10-5%
R84	YZEA0476	RY26-1W-10-5%
R85	YZEA0476	RY26-1W-10-5%
R86	YZEA0476	RY26-1W-10-5%
R87	YZEA0436	RY26-1W-2.2-5%
R88	YZEA0436	RY26-1W-2.2-5%
R89	YZEA0436	RY26-1W-2.2-5%
R90	YZEA0436	RY26-1W-2.2-5%
R91	YZEA0436	RY26-1W-2.2-5%
R92	YZEA0436	RY26-1W-2.2-5%
R101	YZEA0476	RY26-1W-10-5%
R102	YZEG0735	RT13-0.167W-10K-5%
R103	YZEG0735	RT13-0.167W-10K-5%
R104	YZEG0735	RT13-0.167W-10K-5%
R105	YZEG0748	RT13-0.167W-47K-5%
R106	YZEG0748	RT13-0.167W-47K-5%
R107	YZEG0748	RT13-0.167W-47K-5%
R108	YZEG0748	RT13-0.167W-47K-5%
R109	YZEG0748	RT13-0.167W-47K-5%
R110	YZEG0748	RT13-0.167W-47K-5%
R111	YZEG0748	RT13-0.167W-47K-5%
R112	YZEG0718	RT13-0.167W-470-5%
R113	YZEG0761	RT13-0.167W-300K-5%
R114	YZEG0753	RT13-0.167W-100K-5%
R115	YZEG0023	RT14-0.25W-100-5%
<b>CAPACITOR</b>		
C1	YZEA3521	CD110X-470uF-M-25V
C2	YZEA3308	CT4D-2F4-0.47uF-63V-S
C3	YZEA3521	CD110X-470uF-M-25V
C4	YZEA3308	CT4D-2F4-0.47uF-63V-S
C5	YZEA3613	CD110X-100uF-M-25V
C6	YZEA2056	CS1-06B-104Z-63V-Y5V
C7	YZEA3613	CD110X-100uF-M-25V
C8	YZEA2056	CS1-06B-104Z-63V-Y5V
C11	YZEA3510	CD110-22uF-M-16V

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REF No.	PART No.	PART NAME
C12	YZEA2324	CT1-05B-471K-50V-Y5P
C13	YZEA3510	CD110-22uF-M-16V
C14	YZEA2032	CC1-05B-221K-63V-SL
C15	YZEA3511	CD110-33uF-M-16V
C16	YZEA2006	CC1-05B-3.3D-63V-CH
C21	YZEA3510	CD110-22uF-M-16V
C22	YZEA2324	CT1-05B-471K-50V-Y5P
C23	YZEA3510	CD110-22uF-M-16V
C24	YZEA2032	CC1-05B-221K-63V-SL
C25	YZEA3511	CD110-33uF-M-16V
C26	YZEA2006	CC1-05B-3.3D-63V-CH
C31	YZEA3510	CD110-22uF-M-16V
C32	YZEA2324	CT1-05B-471K-50V-Y5P
C33	YZEA3510	CD110-22uF-M-16V
C34	YZEA2032	CC1-05B-221K-63V-SL
C35	YZEA3511	CD110-33uF-M-16V
C36	YZEA2006	CC1-05B-3.3D-63V-CH
C41	YZEA3510	CD110-22uF-M-16V
C42	YZEA2324	CT1-05B-471K-50V-Y5P
C43	YZEA3510	CD110-22uF-M-16V
C44	YZEA2032	CC1-05B-221K-63V-SL
C45	YZEA3511	CD110-33uF-M-16V
C46	YZEA2006	CC1-05B-3.3D-63V-CH
C51	YZEA3510	CD110-22uF-M-16V
C52	YZEA2324	CT1-05B-471K-50V-Y5P
C53	YZEA3510	CD110-22uF-M-16V
C54	YZEA2032	CC1-05B-221K-63V-SL
C55	YZEA3511	CD110-33uF-M-16V
C56	YZEA2006	CC1-05B-3.3D-63V-CH
C61	YZEA3510	CD110-22uF-M-16V
C62	YZEA3510	CD110-22uF-M-16V
C63	YZEA3512	CD110X-47uF-M-16V
C64	YZEA3607	CD110X-22uF-M-50V
C65	YZEA3512	CD110X-47uF-M-16V
C66	YZEA2056	CS1-06B-104Z-63V-Y5V
C67	YZEA2056	CS1-06B-104Z-63V-Y5V
C68	YZEA2056	CS1-06B-104Z-63V-Y5V
C81	YZEA3306	CT4D-2F4-0.22uF-63V-S
C82	YZEA3306	CT4D-2F4-0.22uF-63V-S
C83	YZEA3306	CT4D-2F4-0.22uF-63V-S
C84	YZEA3306	CT4D-2F4-0.22uF-63V-S

REF No.	PART No.	PART NAME
C85	YZEA3306	CT4D-2F4-0.22uF-63V-S
C86	YZEA3306	CT4D-2F4-0.22uF-63V-S
C101	YZEA3613	CD110X-100uF-M-25V
C102	YZEA3576	CD110-2.2uF-M-50V
C103	YZEA3516	CD110X-470uF-M-16V
C104	YZEA3509	CD110-10uF-M-16V
C105	YZEA3510	CD110-22uF-M-16V
C106	YZEA3509	CD110-10uF-M-16V
C121	YZEP20015	GRM39F104Z25PT
C122	YZEP20015	GRM39F104Z25PT
C123	YZEP20015	GRM39F104Z25PT
C124	YZEP20015	GRM39F104Z25PT
C125	YZEP20015	GRM39F104Z25PT
C126	YZEP20015	GRM39F104Z25PT
TRANSISTOR		
VD101	YZEA5001	1N4002
VD102	YZEA5001	1N4002
VD103	YZEA1126B	CZ6V2
VD104	YZEA5001	1N4002
VD61	YZEA5001	1N4002
V101	YZEA5022	2N5551
V102	YZEA5022	2N5551
V103	YZEA5023	2N5401
V104	YZEA5022	2N5551
V105	YZEA5022	2N5551
V106	YZEA5022	2N5551
OTHER		
L1	YZEA6997	5.5uH
L2	YZEA6997	5.5uH
L3	YZEA6997	5.5uH
L4	YZEA6997	5.5uH
L5	YZEA6997	5.5uH
L6	YZEA6997	5.5uH
L7	YZEA6879	100uH
S1	YZEA7346	12V RELAY FTR-F4AK012T
S2	YZEA7346	12V RELAY FTR-F4AK012T
S3	YZEA7346	12V RELAY FTR-F4AK012T
N1	YZEP90263	STK402-920
N2	YZEA4390	TDA7294
XS1	YZEA6953	SCT12 PLUG
XS2	YZEA6556	12 PINS SOCKET

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REF No.	PART No.	PART NAME
XS3	YZEA6514	9 PINS SOCKET
<b>DVA2630SD/USB ASS'Y</b>		
RESISTOR		
R1	YZEP11209	RC-03K433JT
R2	YZEP11209	RC-03K433JT
R3	YZEP11209	RC-03K433JT
R4	YZEP11209	RC-03K433JT
R5	YZEP11209	RC-03K433JT
R6	YZEP11009	RC-03K102JT
R7	YZEP11209	RC-03K433JT
R8	YZEP11209	RC-03K433JT
R9	YZEP11209	RC-03K433JT
R10	YZEP11209	RC-03K433JT
R11	YZEP11000	RC-03K000JT
R12	YZEP11000	RC-03K000JT
R13	YZEP11013	RC-03K103JT
R14	YZEP11012	RC-03K472JT
R15	YZEP11012	RC-03K472JT
R16	YZEP11209	RC-03K433JT
R17	YZEP11209	RC-03K433JT
R18	YZEP11209	RC-03K433JT
R19	YZEP11209	RC-03K433JT
R20	YZEP11209	RC-03K433JT
R21	YZEP11209	RC-03K433JT
R22	YZEP11209	RC-03K433JT
R23	YZEP11209	RC-03K433JT
R24	YZEP11209	RC-03K433JT
R25	YZEP11130	RC-03K391JT
R26	YZEP11046	RC-03K390JT
R27	YZEP11046	RC-03K390JT
R28	YZEP11012	RC-03K472JT
R29	YZEP11013	RC-03K103JT
R30	YZEP11013	RC-03K103JT
R31	YZEP11013	RC-03K103JT
CAPACITOR		
C1	YZEP31093A	UZS1C100MCL1GB
C2	YZEP31093A	UZS1C100MCL1GB
C3	YZEP30014	EEE1CA101WP
C4	YZEP20018	GRM39CH100J50PT
C5	YZEP20015	GRM39F104Z25PT
C6	YZEP20015	GRM39F104Z25PT

REF No.	PART No.	PART NAME
C7	YZEP20015	GRM39F104Z25PT
C8	YZEP20015	GRM39F104Z25PT
C9	YZEP20018	GRM39CH100J50PT
C10	YZEP20015	GRM39F104Z25PT
C11	YZEP20018	GRM39CH100J50PT
C12	YZEP20018	GRM39CH100J50PT
C13	YZEP20035	GRM39F105Z10PT
C14	YZEP20015	GRM39F104Z25PT
C15	YZEP20015	GRM39F104Z25PT
CRYSTAL OSCILLATOR		
JP1	YZEA7593	HC-49U/S 24MHz
INDUCTOR		
L1	YZEP6659	BGH2012B60LT
L2	YZEP6659	BGH2012B60LT
IC		
U1	YZEP90449A	UB6220FB2-131
U2	YZEP90351	AP1117D33LA
U3	YZEP90254	ADG713BRUZ-REEL7
U4	YZEP90420	AIC1526-0PS
TRANSISTOR		
V1	YZEP5073A	2SD601AR
V2	YZEP5073A	2SD601AR
V3	YZEP5766	STZ6.2NT146
V4	YZEP5766	STZ6.2NT146
V5	YZEP5073A	2SD601AR
SOCKET		
X1	YZEA6522	S-6B-PH 6 PIN SOCKET
XP1	YZEP7050	MSD319-PF
XP2	YZEA7558	MZ517-4A-4 USB JACK

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